

INT@:UMA
EXT@:Discrete
V6@:64M VRAM
V12@:128M VRAM
G5@:LAN 5705E
G7@:LAN 5787
G9@:LAN 5709

ZE2

REV : A1A

AC/BATT
CONNECTOR Page 41

BATT
CHARGER Page 40

Yonah/Celeron-M

(479 Micro-FCPGA)
Page 4,5

DC/DC
NVDD/+1.2V
+3V/+5V
+1.05V/+1.8VSUS/+1.8V/+0.9V
+1.5V/+2.5V
Page 35,37,38,39

CPU VR
SC452
Page 36

CLOCKS Generator
ICS954310BGLF
Page 3

+0.9V
+0.9VSUS
+1.8VSUS

DDR-SODIMM1
Page 10,11
DDR2 533/667 MHz

DDR-SODIMM2
Page 10,11
DDR2 533/667 MHz

+1.05V
CALISTOGA-GM/PM
+1.5V 1466 FCBGA
+1.8VSUS
+2.5V
Page 6,7,8,9

HOST BUS 533/667 MHz

EXT. VGA
n-VIDIA NV72MV
Page 12,13,14,15

EXT_LVDS
EXT_TVOUT
EXT_VGA

SWITCH

LCD Connector
Page 28

DVI
CH7307
Page 16

CIRCUIT
Page 17

CRT
Page 17

DOCKING
Page 33

EZ4 DVI

Parallel-HDD
Page 32
ATA 66/100

Multi-Bay
Page 32
ATA 66/100
Azalia

DMI interface

+1.5V
+2.5V
+3V
+3VSUS
+1.5VSUS
ICH7-M
652 BGA
Page 18,19,20

PCIe

33MHz PCI

MINI card
Page 29

LAN (10M/100M/1G)
BCM5787M/5789M
Page 23

RJ45
Page 24

LAN (10M/100M/1G)
BCM 5705E
AD22 / REQ1# / GNT1# / INTA#
Page 23

CARDBUS/1394/3-IN-1
TI 7411
AD25 / REQ0# / GNT0# / INT E/F/G#
Page 21,22

1394 PORT
Page 21

ALC833
(Codec)
& 2 AMP
Page 30

MDC1.5
Page 30

RJ11
Page 24

Head phone
Page 31

INT SPK
Page 31

Internal-MIC
Page 31

MIC-IN
Page 31

LINE-IN
Page 31

SUPER I/O
PC87391
Page 26

COM A
Digitizer
Page 26

COM B
FIR
Page 26

3V_591
EC NSC97551
176 Pins LQFP
Page 27

+5V
JOGDIAL
Page 28

+5V
Keyboard
Page 27

+3VPCU
FLASH
Page 27

+5V
FAN 1
Page 25

USB

USB PORT X 3
Page 25

Mini-Bluetooth
(USB bus)
Page 25

Finger
Printer Page 28

3 in 1
socket
MMC,SD,MS
Page 22

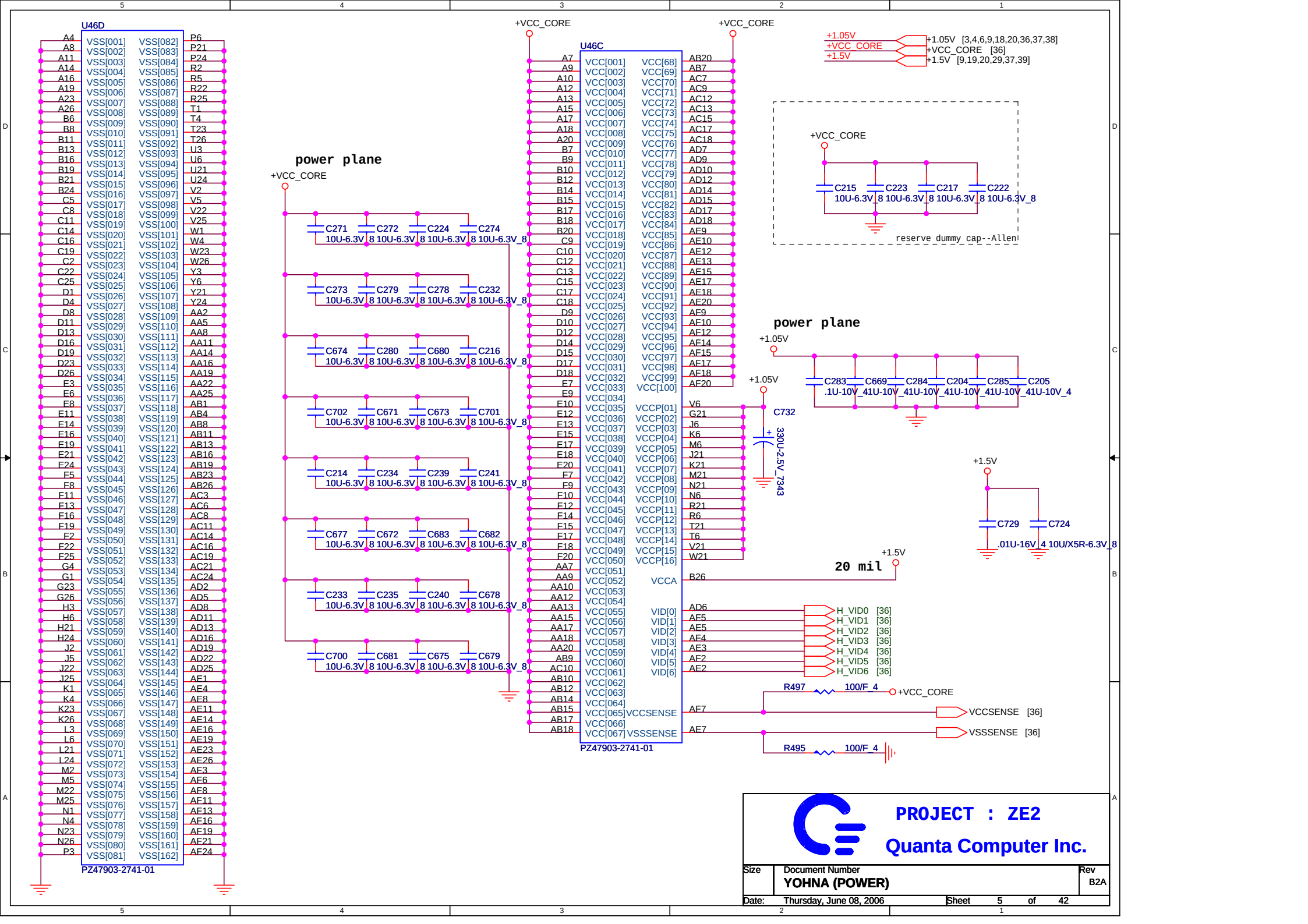
CARDBUS
CON.
Page 22

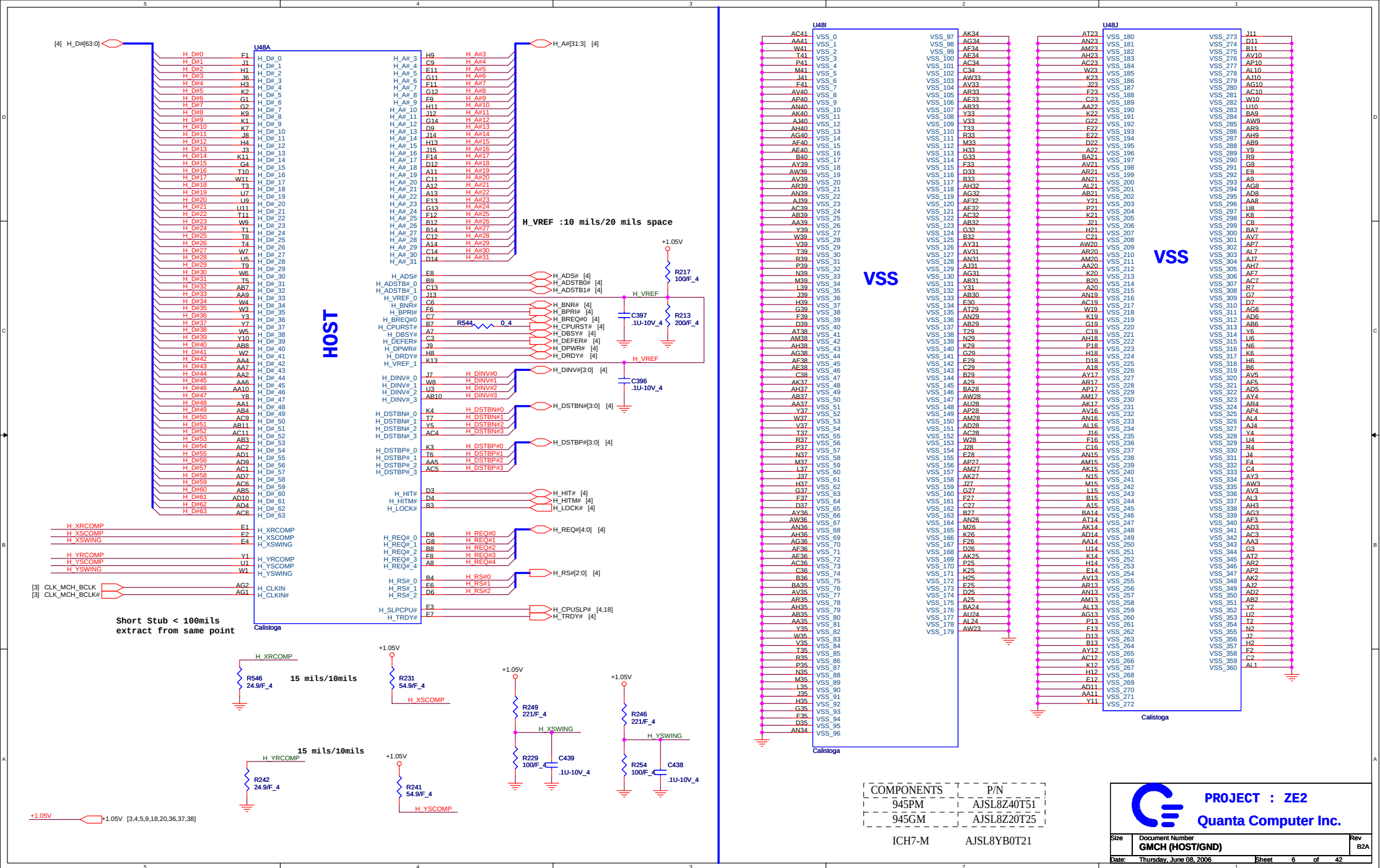


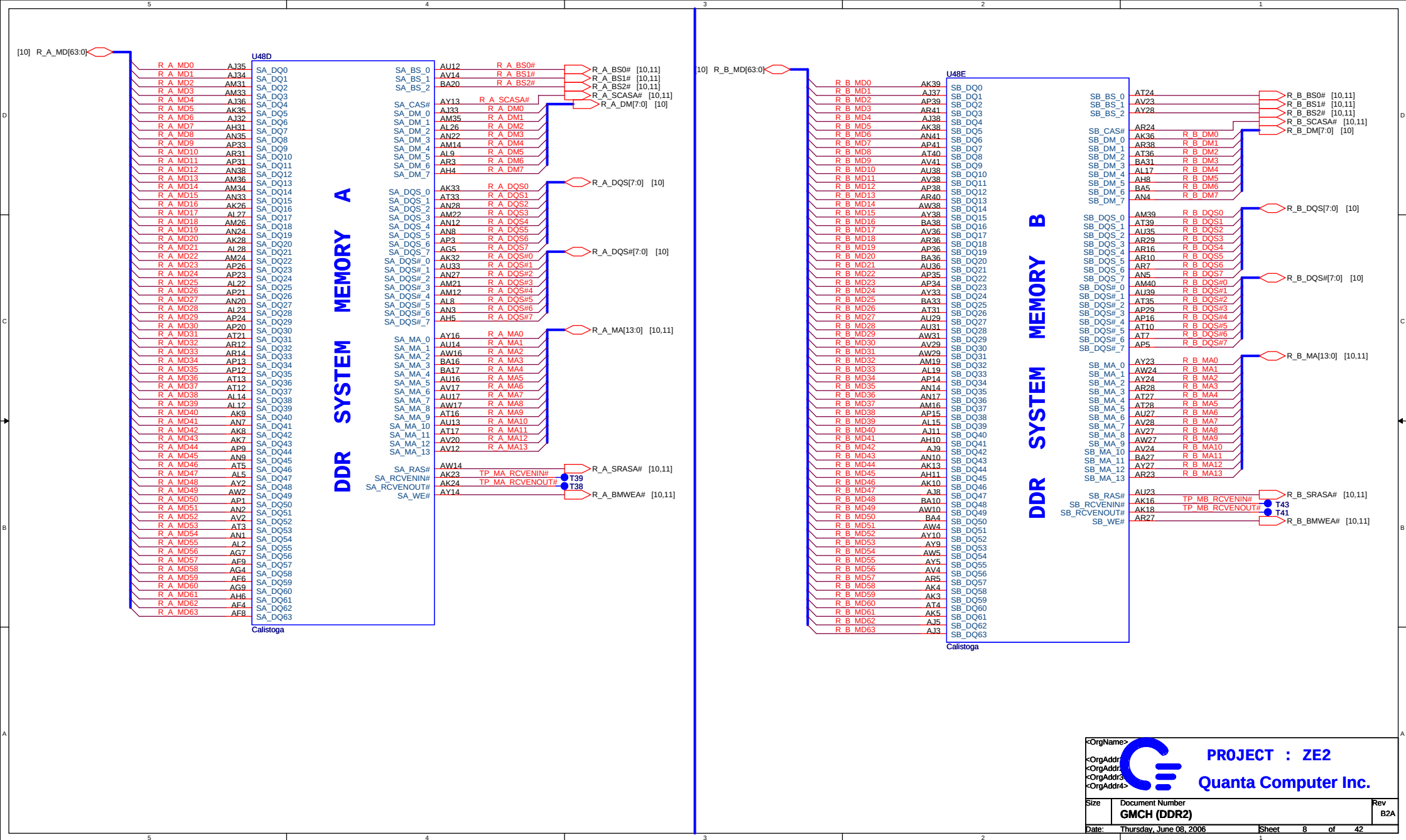
PROJECT : ZE2
Quanta Computer Inc.

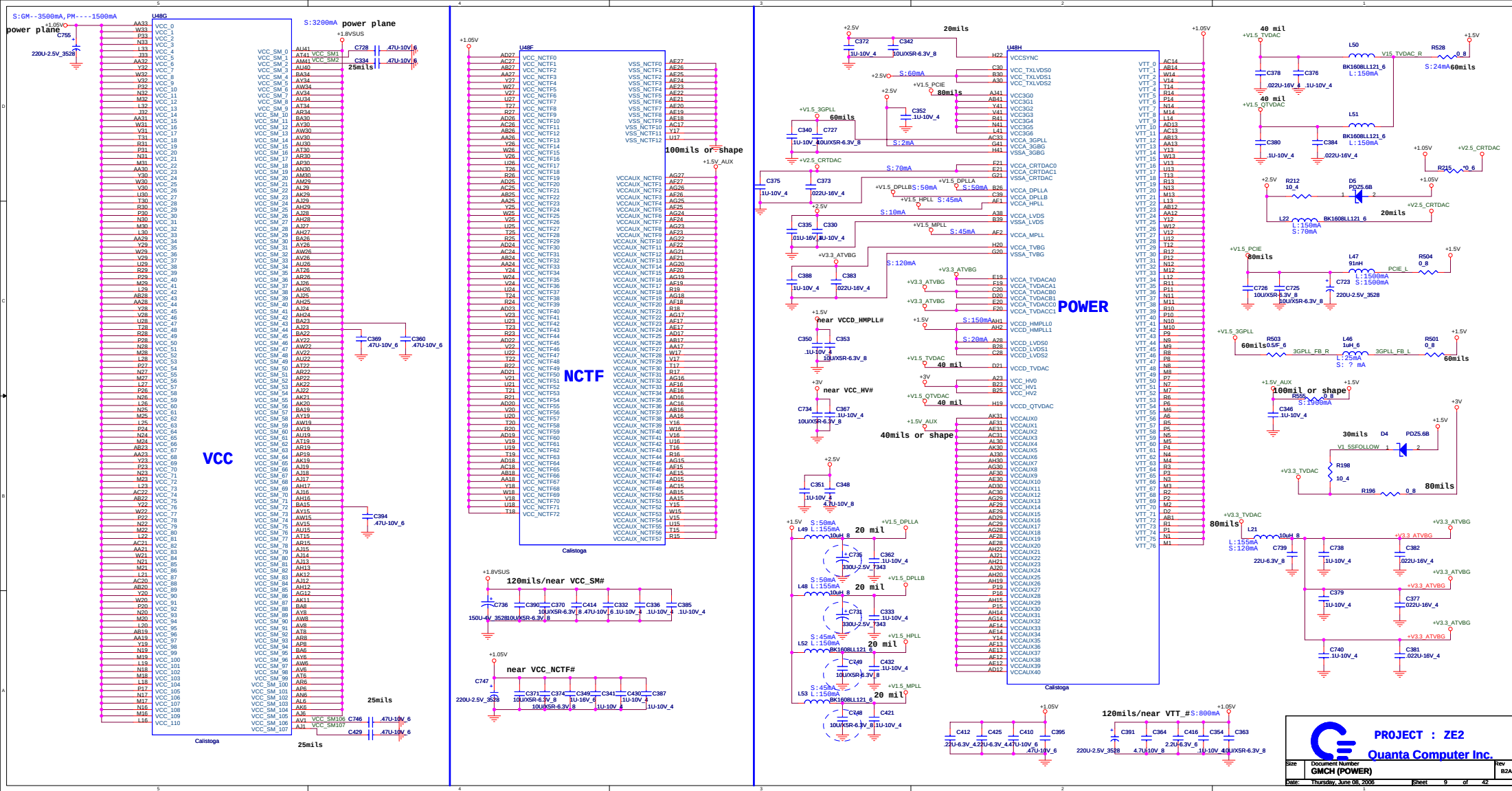
5/5 page29 MINI CARD pin define changed for debug card
5/8 page31 Audio Jack GND connect to DGND
5/10 page09 modify GMCH power for G72MV(original some parts no stuff for descrete,modify to stuff)
5/10 page37,38 change PQ36,PQ37,PQ38,PQ40,PQ41,PQ45,PQ53 part number to BAM64020009 for EOL issue
5/10 page31 change D19,D20,D22 part number to BC1SS355Z05 for EOL issue
6/4 page26,27 change S_SERIRQ net name to SERIRQ for fix KB no function issue, and add a cap of SERIRQ if noise
6/4 page30 ,stuff U53 ,no stuff L60 for audio noise
6/4 page31 R633 change from 15K to 22K to fix speaker voice is too low issue
6/4 page31 tie SURR-L and SURR-R for fix no sound when volume bar adjust to right channel
6/4 page30 change R627,R629 from 0 ohm to 4.7K ohm for fix HP voice is too loud
6/4 page31 change R635,R640 change from 0 to 75 ohm for fix noise by ZC3 solution
6/4 page31 add cap on linein PR for fix audio noise from docking Line in
6/4 page28 LCD connector pin34 change to +3V for fix EDID LCD issue
6/4 page13 add LCDID to VGA for Toshiba LCD that is no EDID support issue
6/4 page19 change USB I/O port from port1 to port2 for Bluetooth detection issue
6/4 page13 stuff R496 for fix no CRT issue by VGA SKU
6/4 page27 change 1M BIOS ROM from B-stage
6/4 page35 change PR55,PR146 to 100K and PC44,PC141 to 0.1uF to meet Nvidia power sequence requirement
6/4 page32 add ODD RST PU resistor for S/W not ready
6/4 page38 PL22 chagne p/n to CV-33D5MZ04 for package and footprint are difference issue
6/4 page42 add modem hole for modem NUT issue
6/4 page31 R630 change to LF part
6/4 page36 change PC15,PC16,PR16,PR18 value for power requirement
6/4 page35 change PR150 from 20K to 24K value for power requirement
6/4 page36 Add snubber of 2.2 ohm/2200pf on CPU core
6/4 page35,38,39 del short PAD
6/4 page28 un stuff CN3 PCI debug card
6/4 page15 R452,R478 change from 1K to 1.3K,R453,R469 change from 1K to 510 ohm ,Vref change from 0.5VDDQ to 0.7VDDQ for VRAM CLK un-stable issue
6/4 page14 R462, change from 1K to 1.3K,R461 change from 1K to 510 ohm ,Vref change from 0.5VDDQ to 0.7VDDQ for VRAM CLK un-stable issue
6/4 page42 change DIM H26,H35,H37 for SMT A open issue
6/7 page19 stuff R340 for PCI LAN wake up
6/7 page20,add RBAYID0,RBAYID1 PU for Swap Bay
6/8 page31,reserve 0 ohm resistor for EMI request
6/8 page19,change USB port for BT detection issue
6/9 page31 C836 change to 0.1uf for backgroud noise
6/9 page40 change PD19 p/n for EOL issue

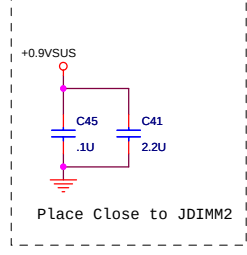
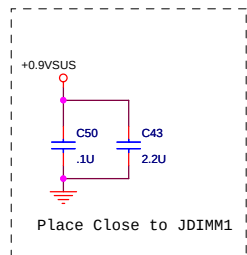
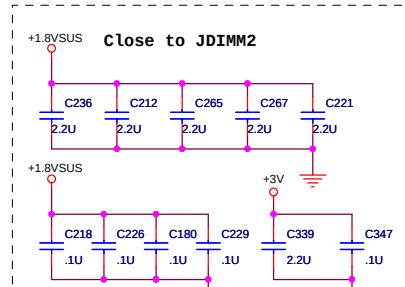
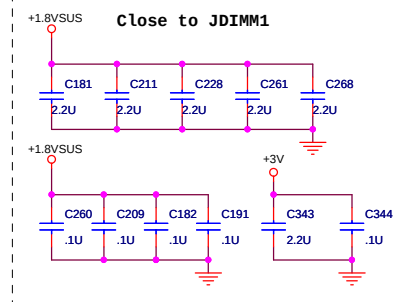
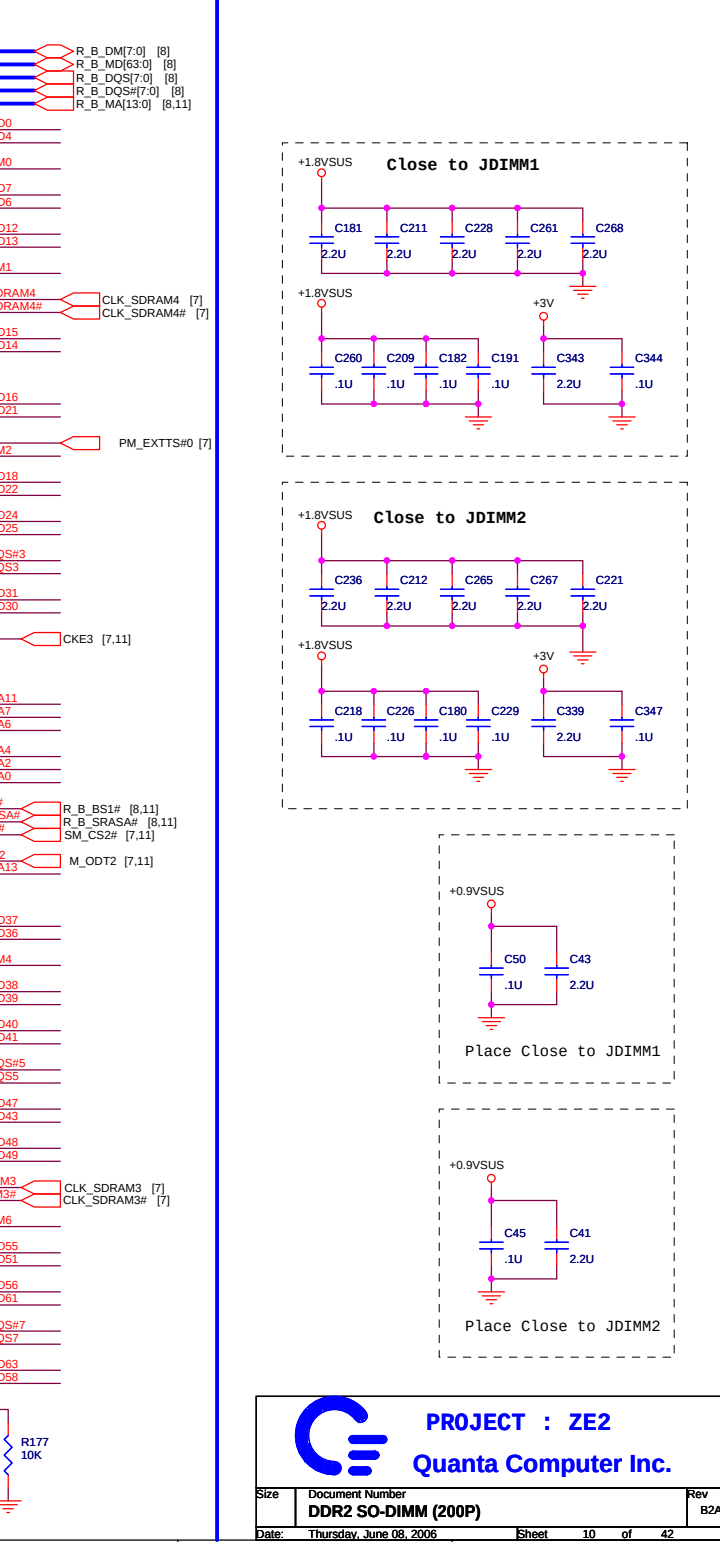
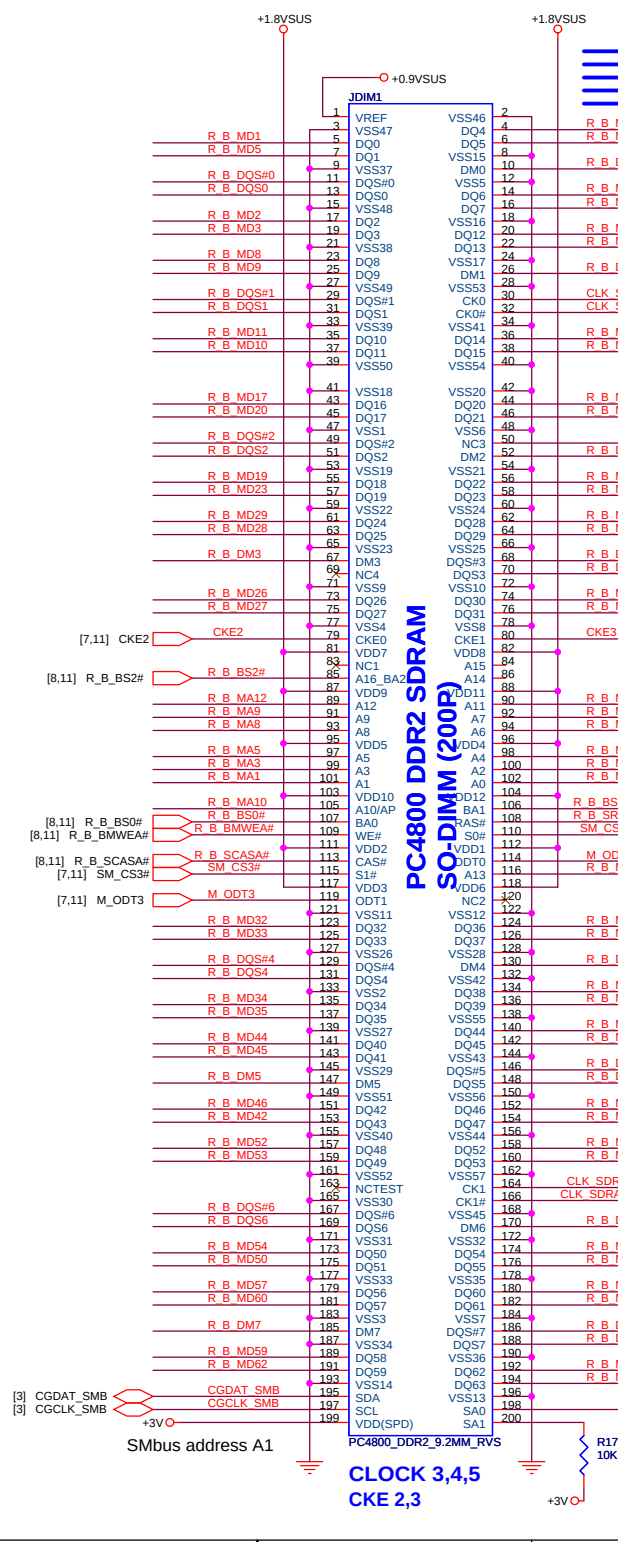
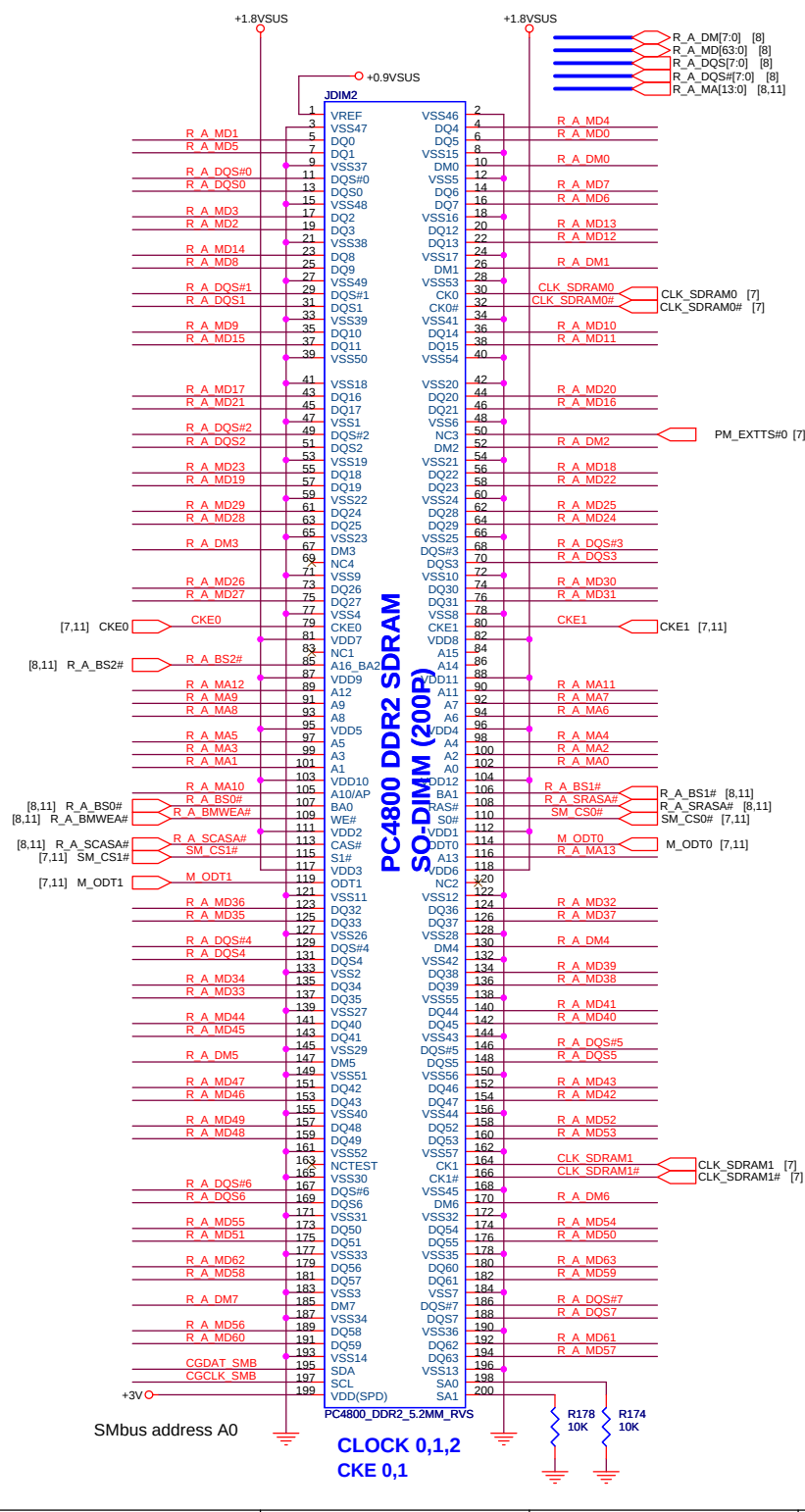
SKU	MB ID	BOM Property	ASSY PN	Description	VRAM vender
A test SKU1		ZE2A	31ZE2MB0006	ZE2 M/B ASSY (GM/5705E)	
A test SKU2		ZE2B	31ZE2MB0014	ZE2 M/B ASSY (PM/G72MV/64M/5787)	Samsung 8M*32
A test SKU3		ZE2C	31ZE2MB0022	ZE2 M/B ASSY (PM/G72MV/128M/5789)	Samsung 16M*32
B test SKU3		ZE2D	31ZE2MB0031	ZE2 M/B ASSY (GM)	

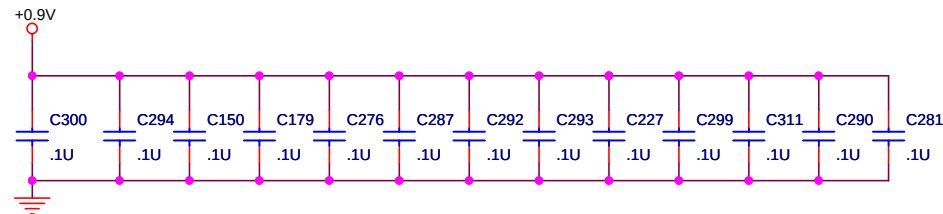




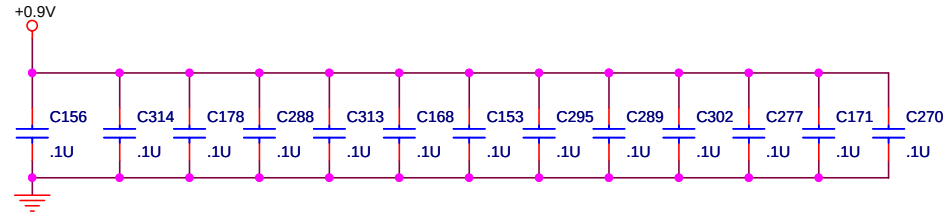




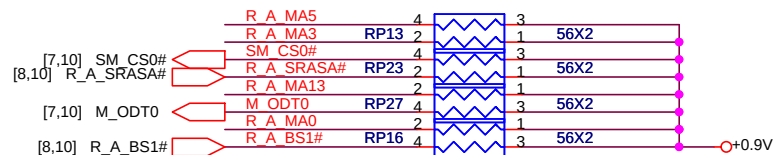
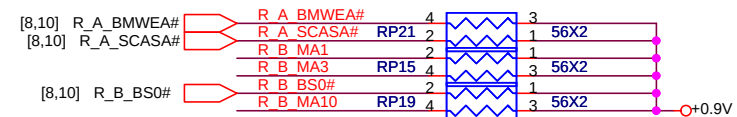
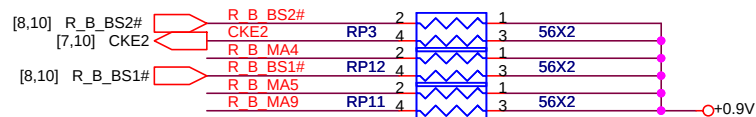
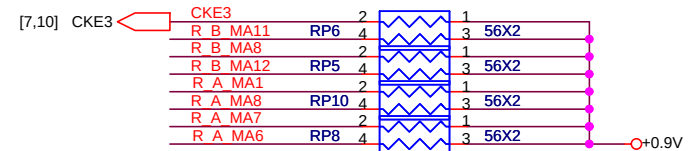
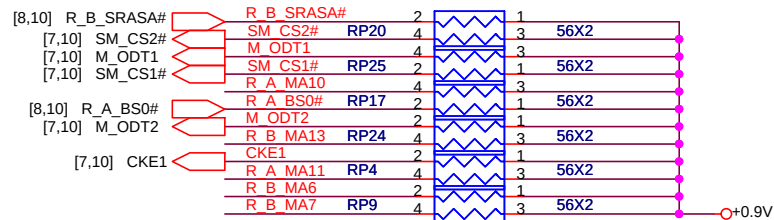
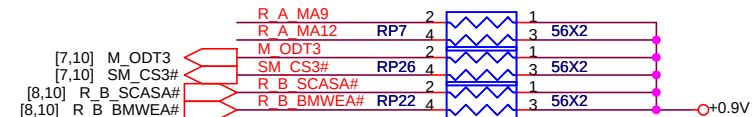
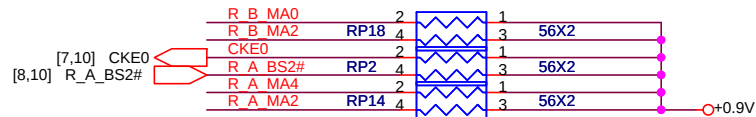


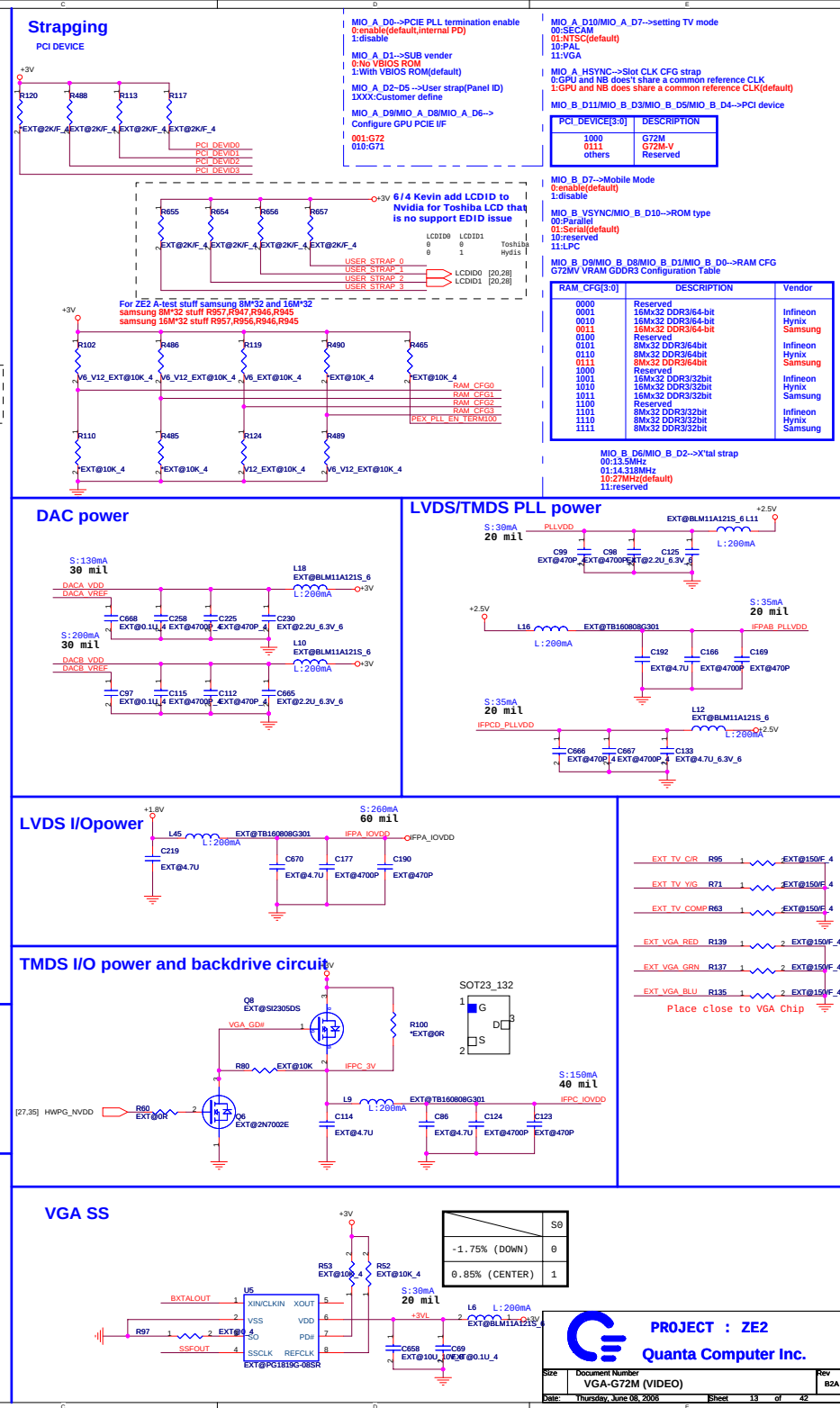
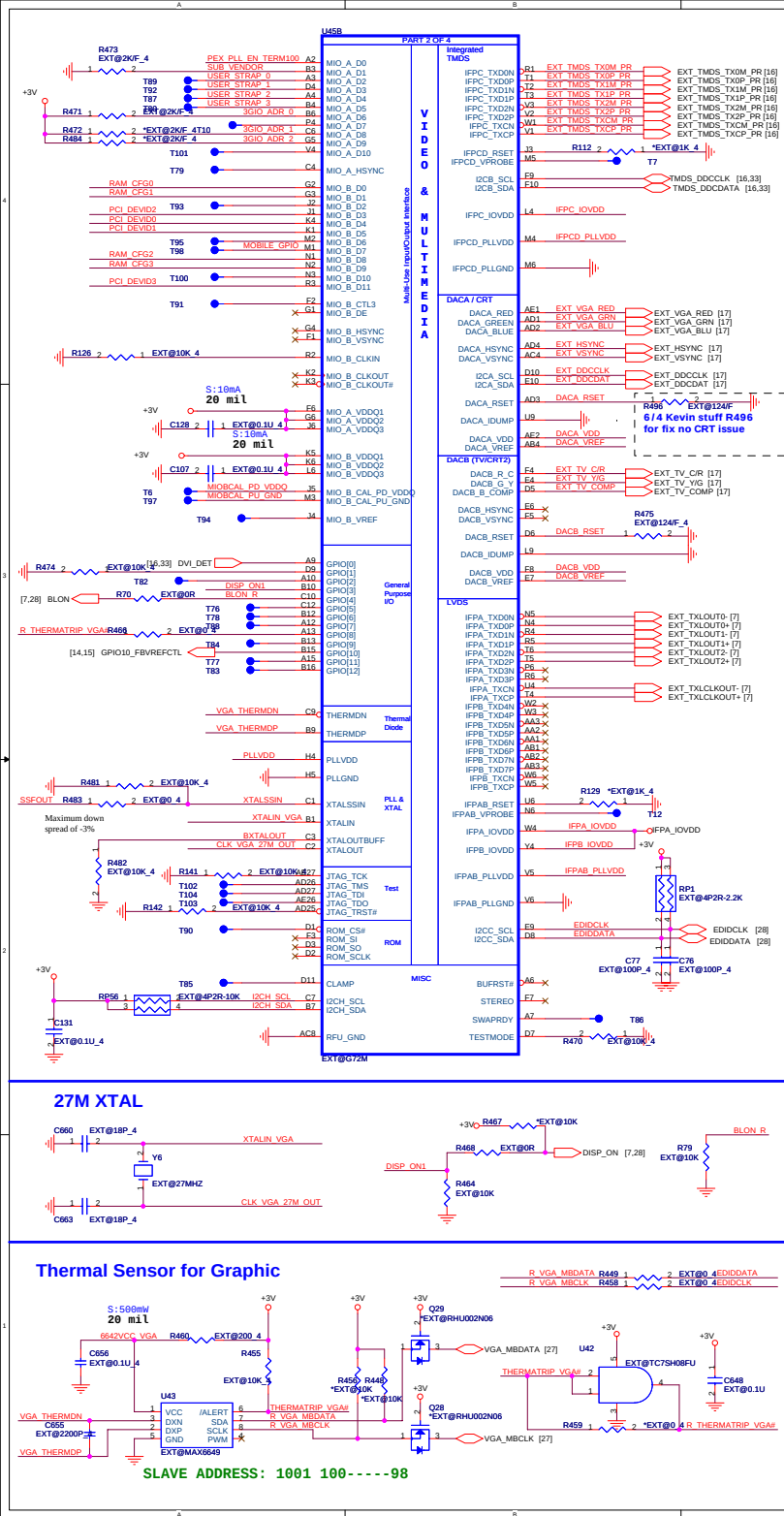


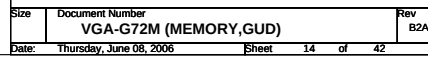
Layout note: Place one cap close to every 2 pullup resistors terminated to SMDR_VTERM



Layout note: Place one cap close to every 2 pullup resistors terminated to SMDR_VTERM

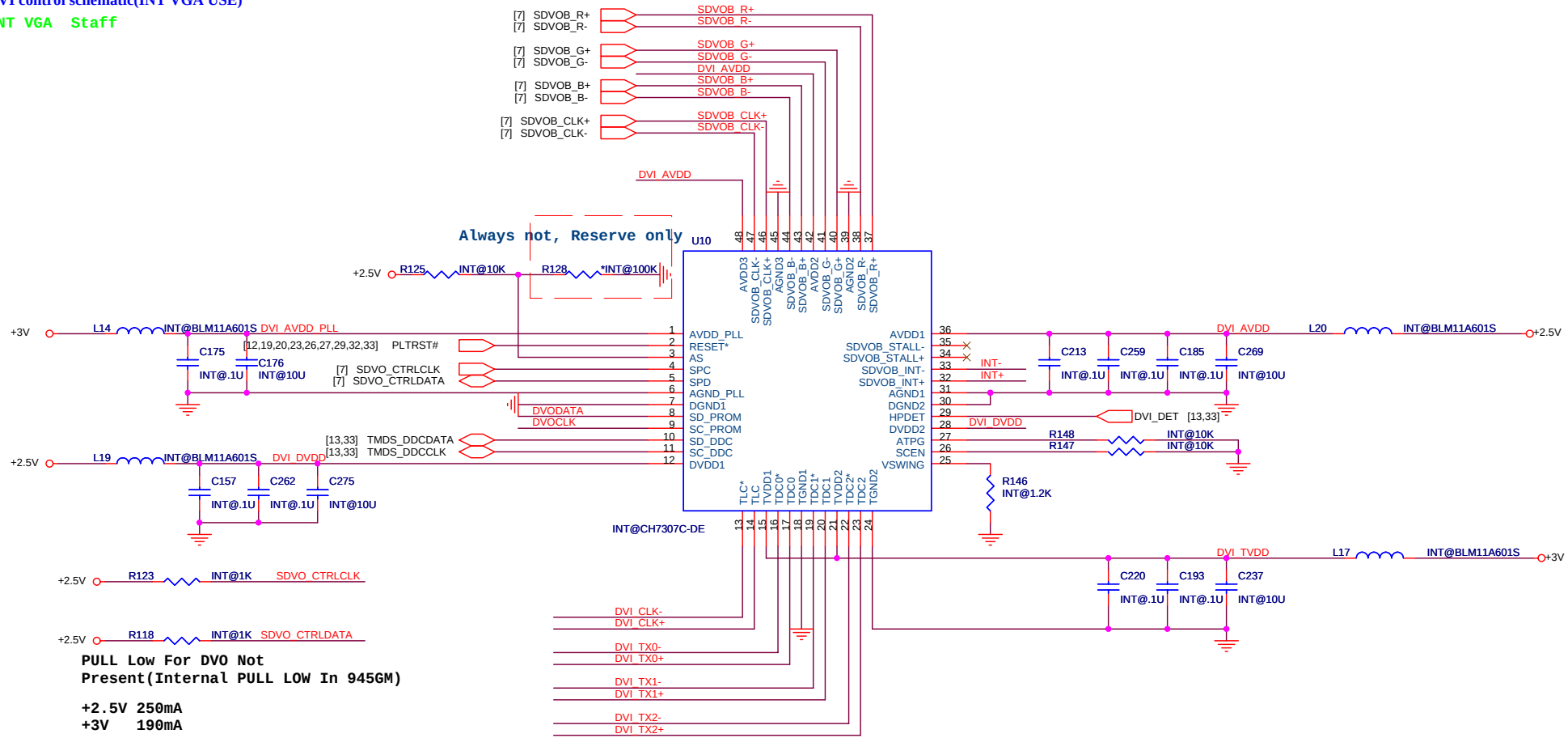






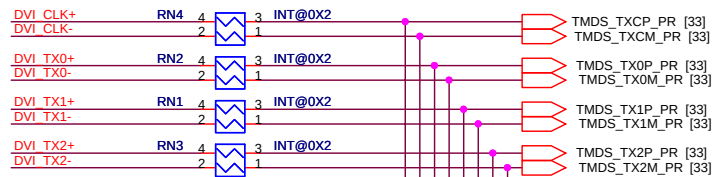
DVI control schematic(INT VGA USE)

INT VGA Staff

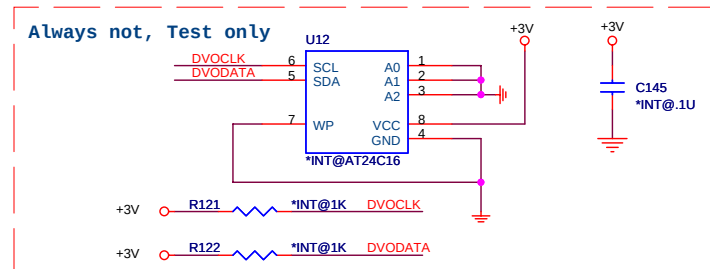
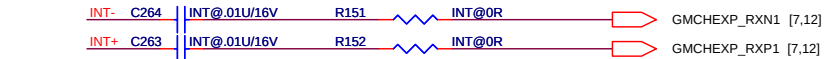
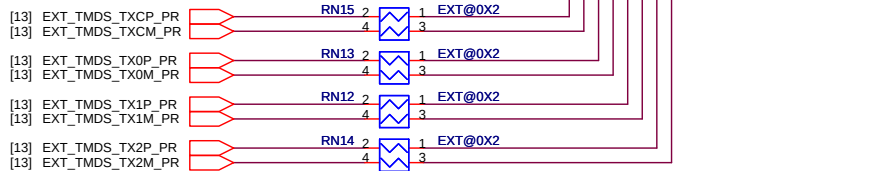


DVI Output select

INT VGA Staff



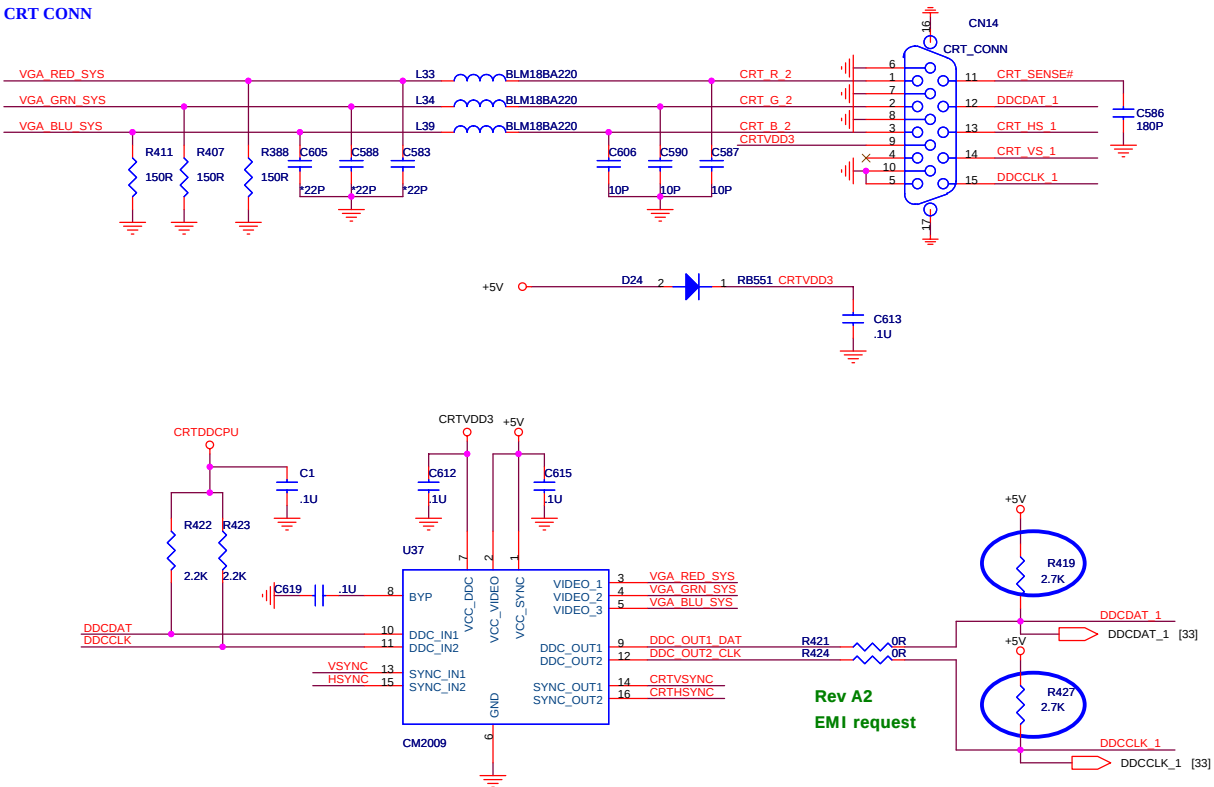
EXT VGA Staff(Default)



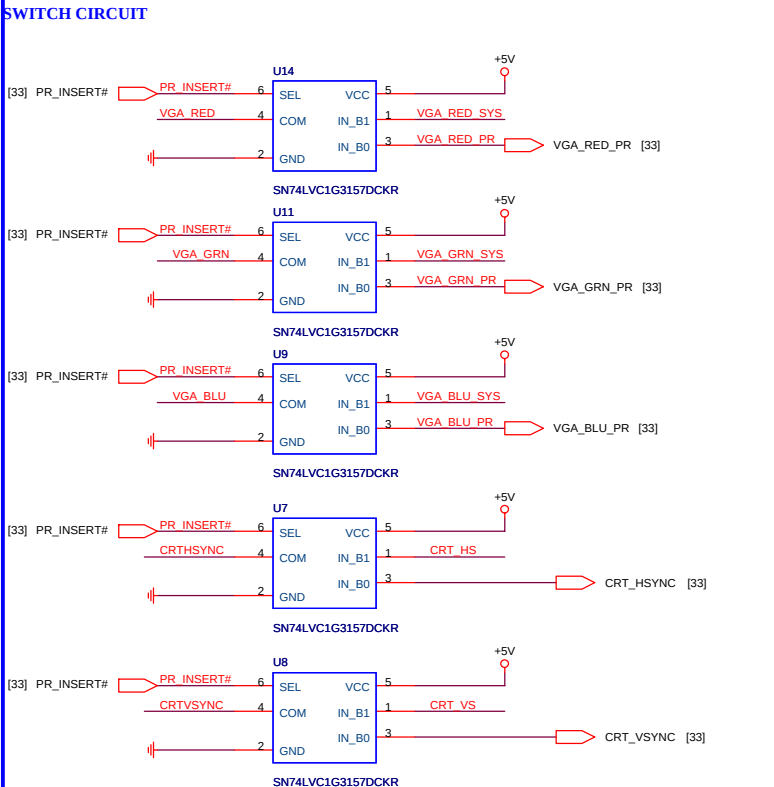
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Size	Document Number	Rev
	INT. DVI	B2A
Date:	Thursday, June 08, 2006	Sheet 16 of 42

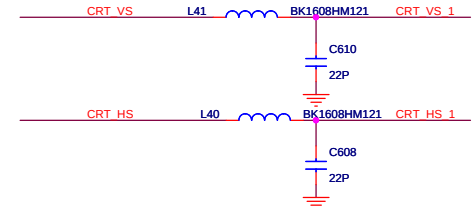
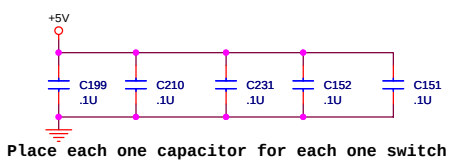
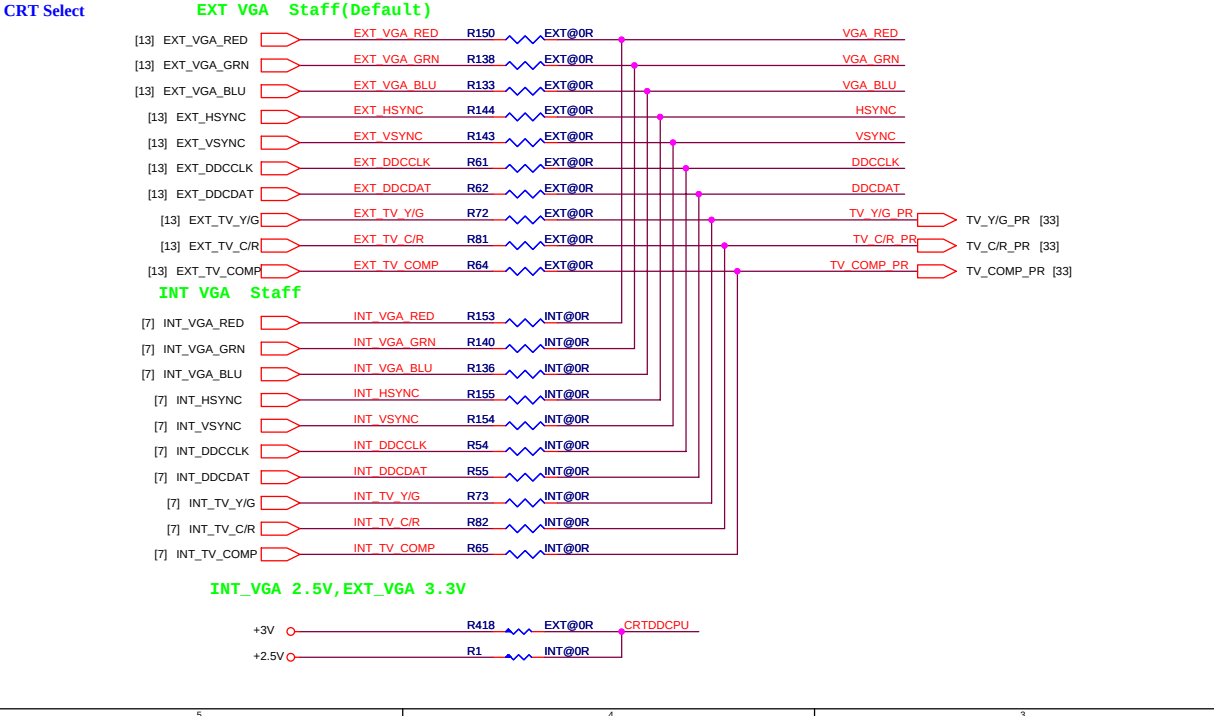
CRT CONN



SWITCH CIRCUIT



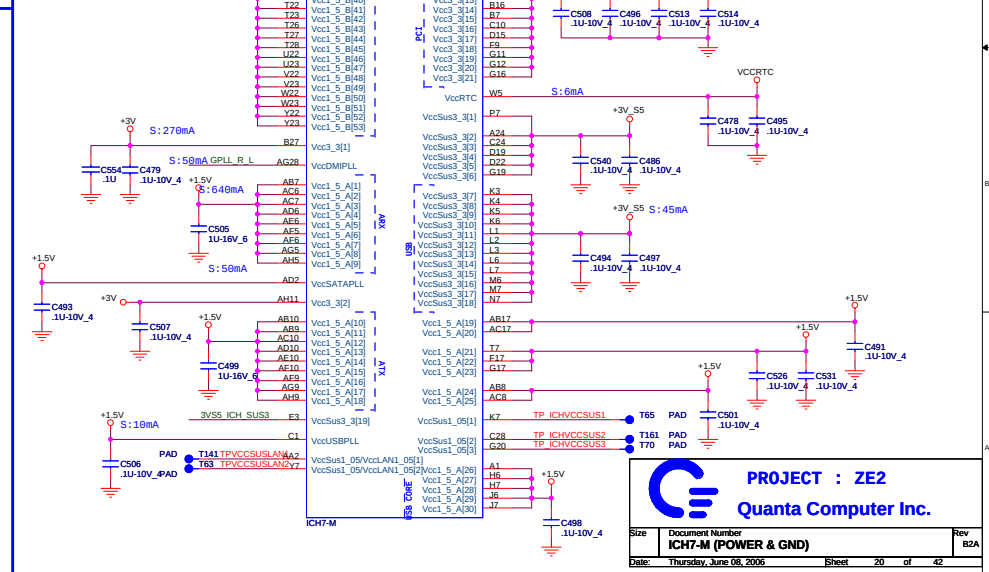
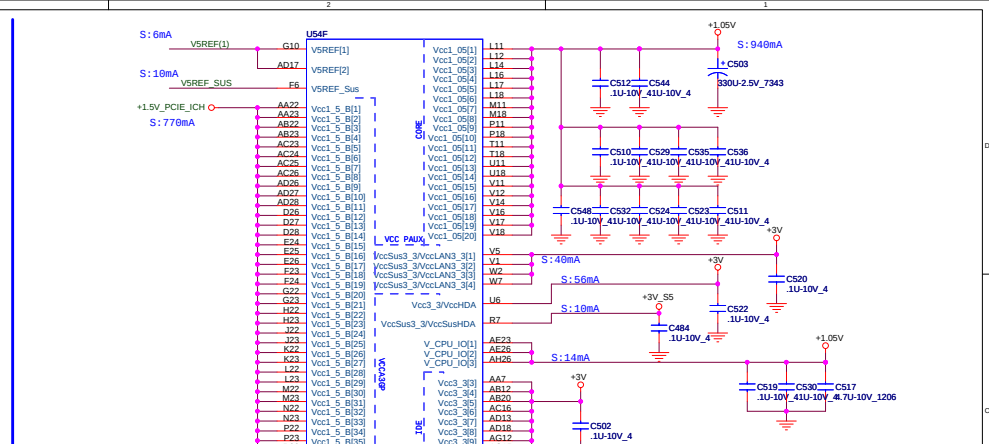
CRT Select



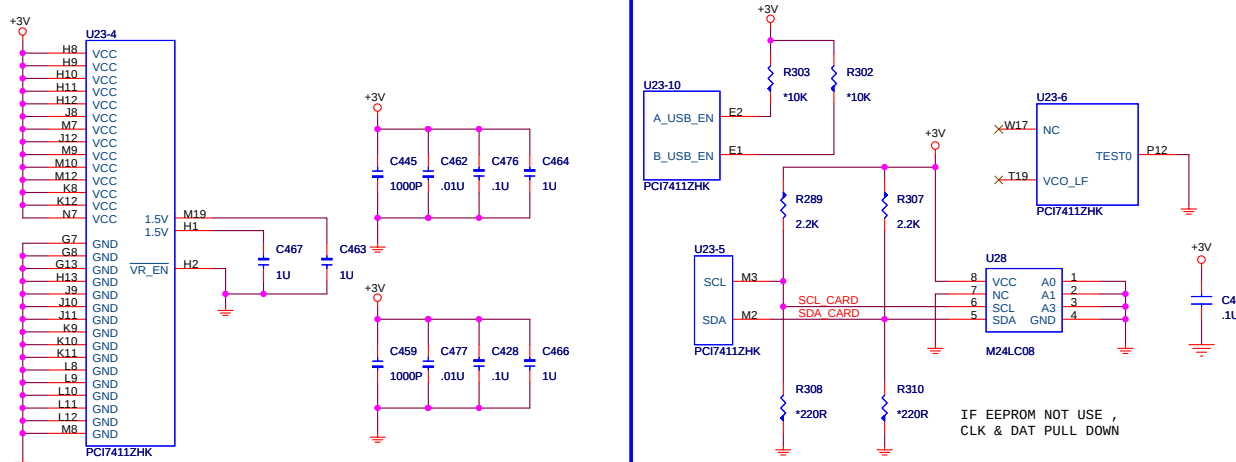
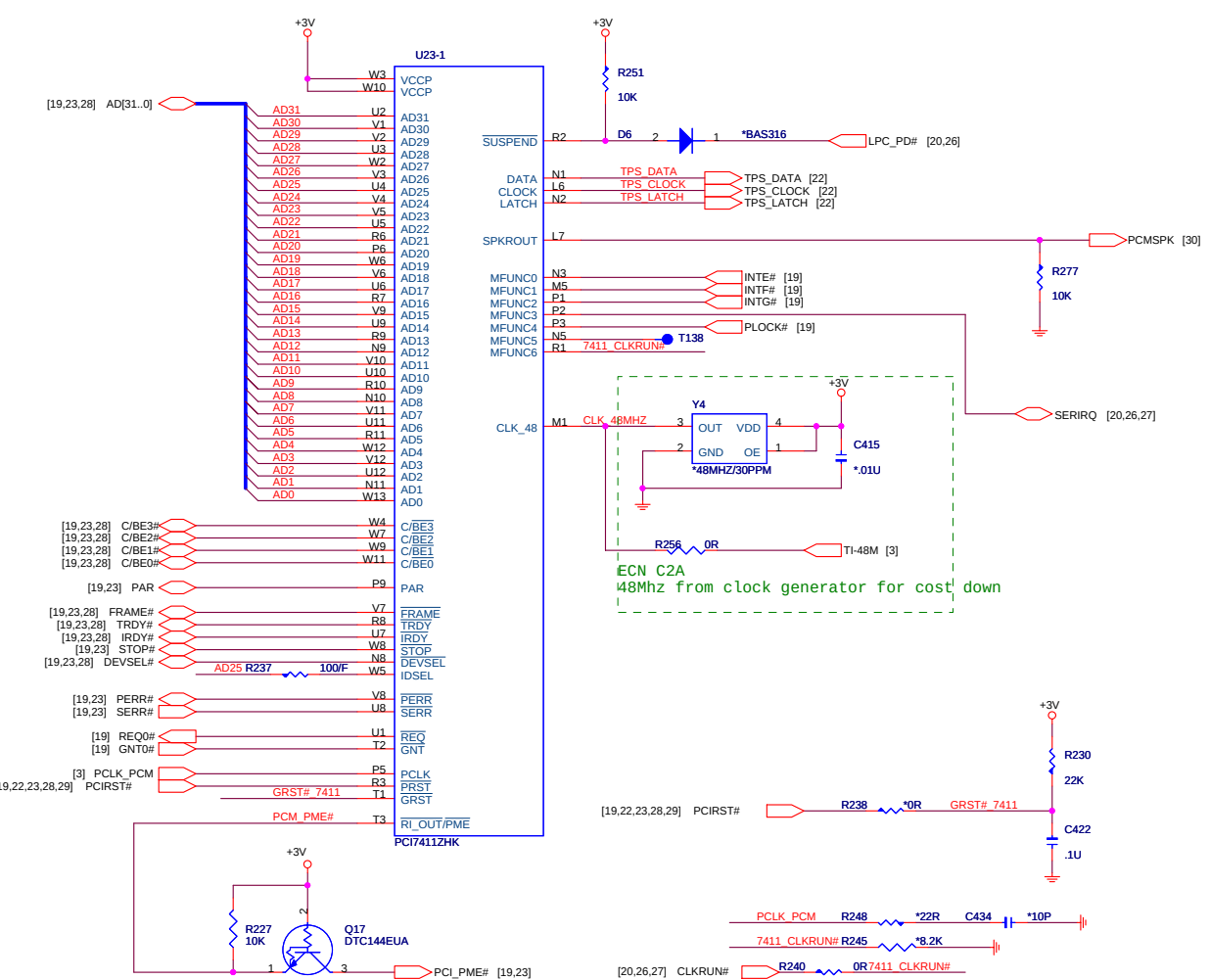


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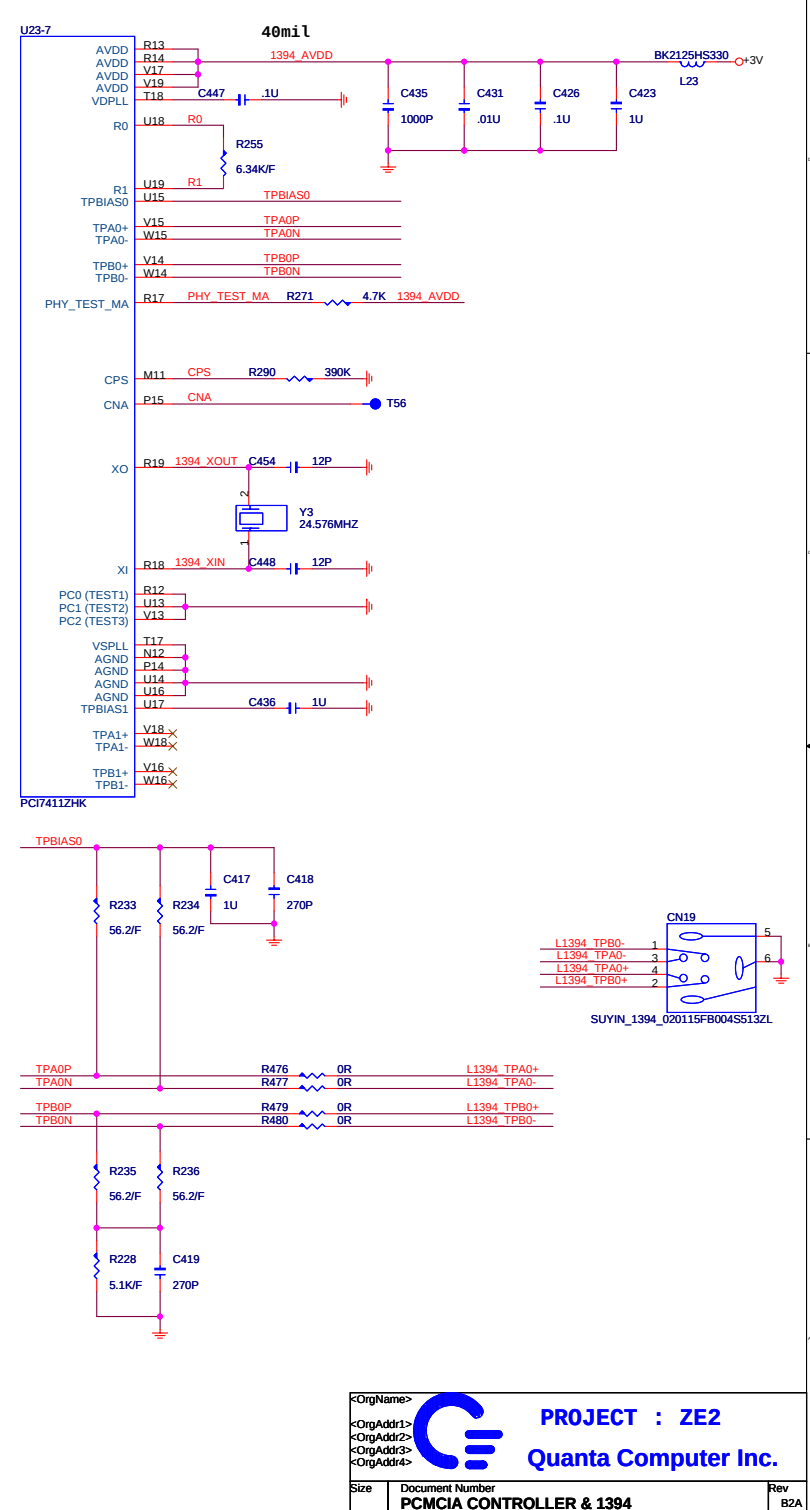
Size	Document Number	Rev
	CRT & SWITCH	B2A
Date:	Thursday, June 08, 2006	Sheet 17 of 42



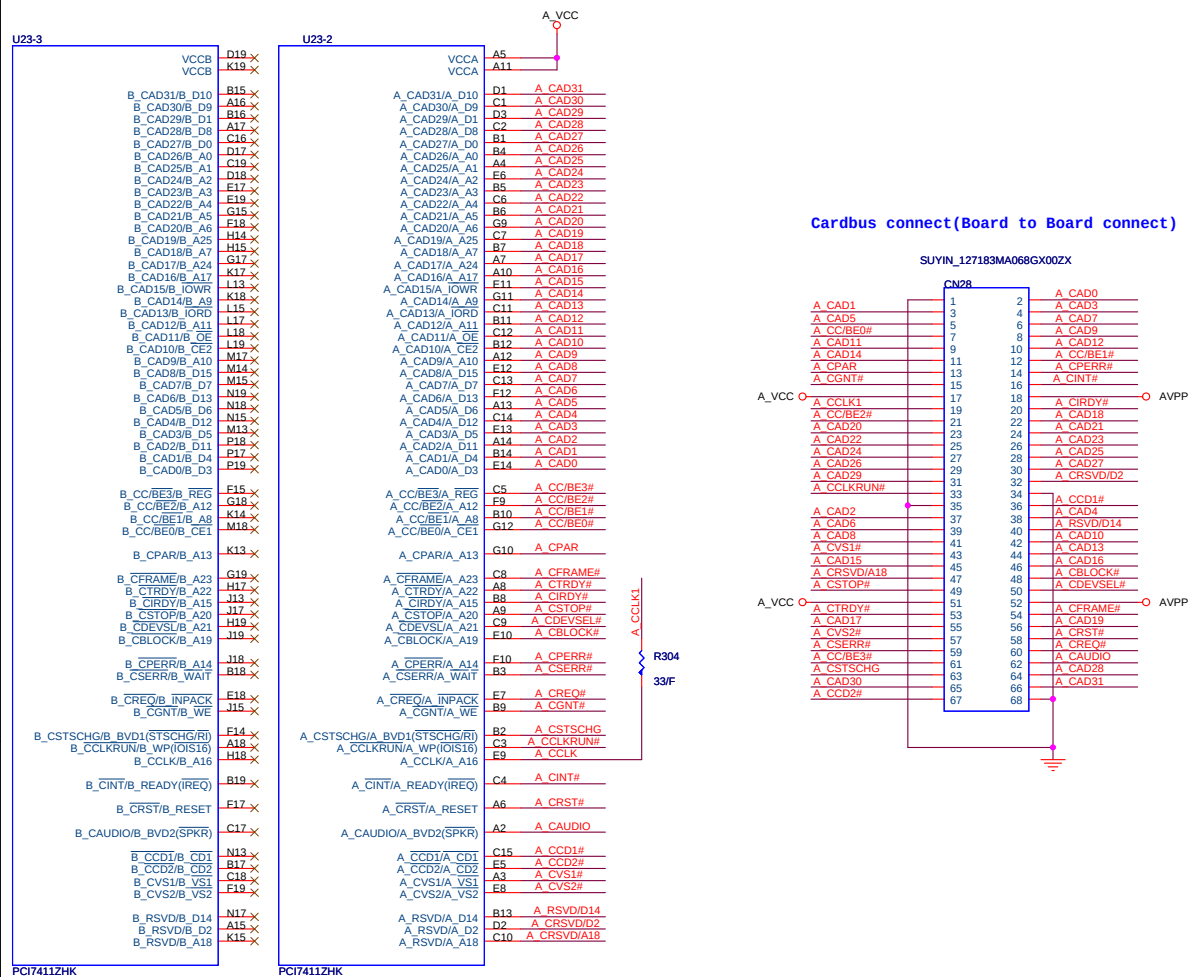
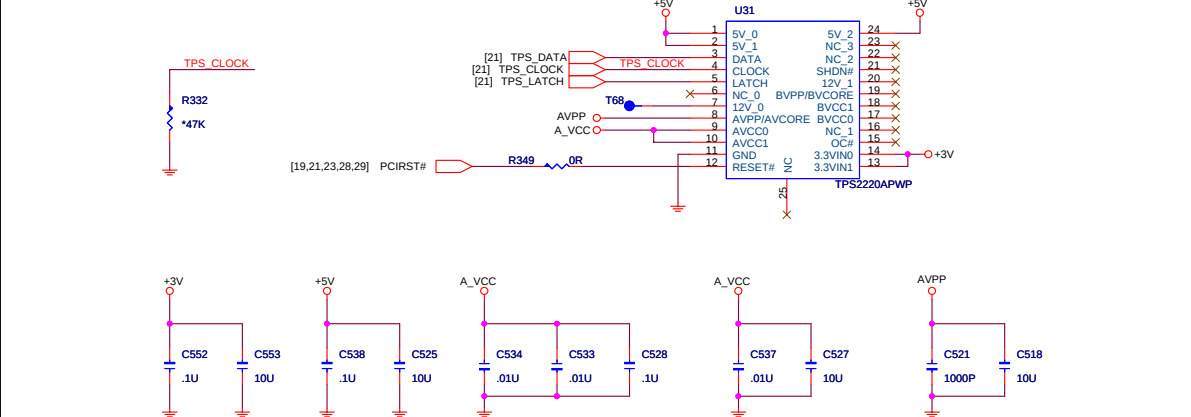
7411 PCI Interface
PCI routing REQ0#/GNT0#/AD25/INTE#,INTF#,INTG#



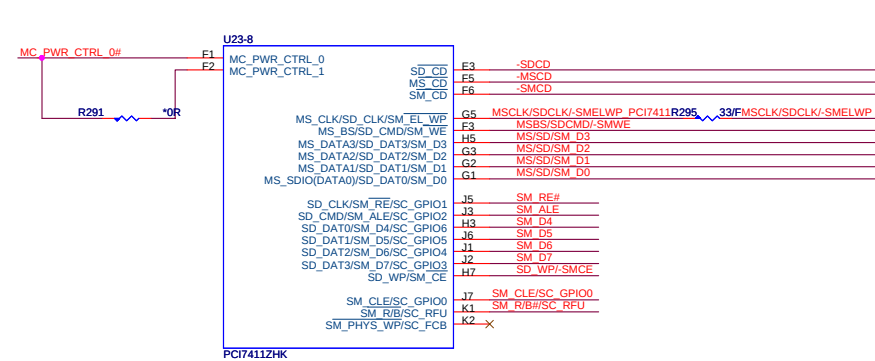
1394 Interface(CONN/EEPROM)



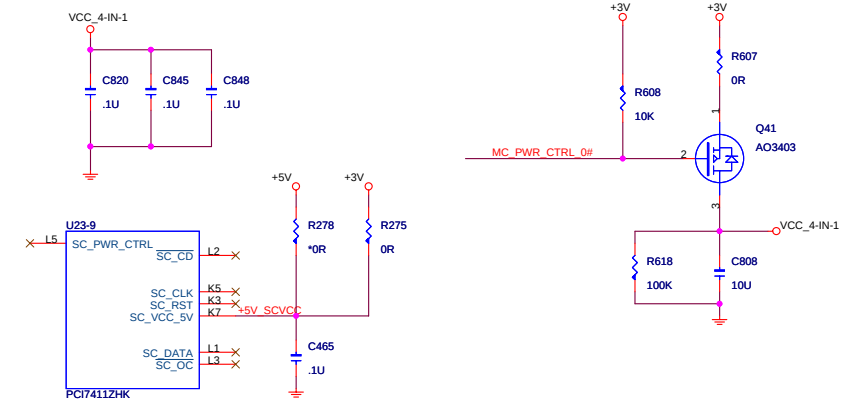
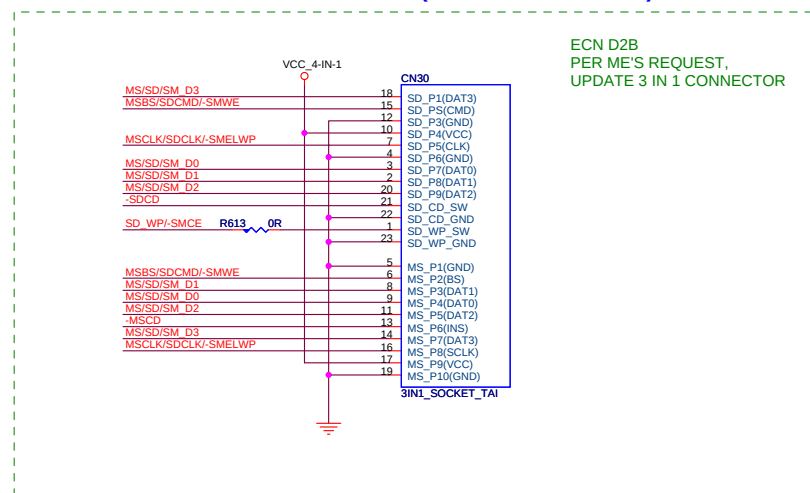
Cardbus Interface

**Cardbus Power**

Card Reader Interface

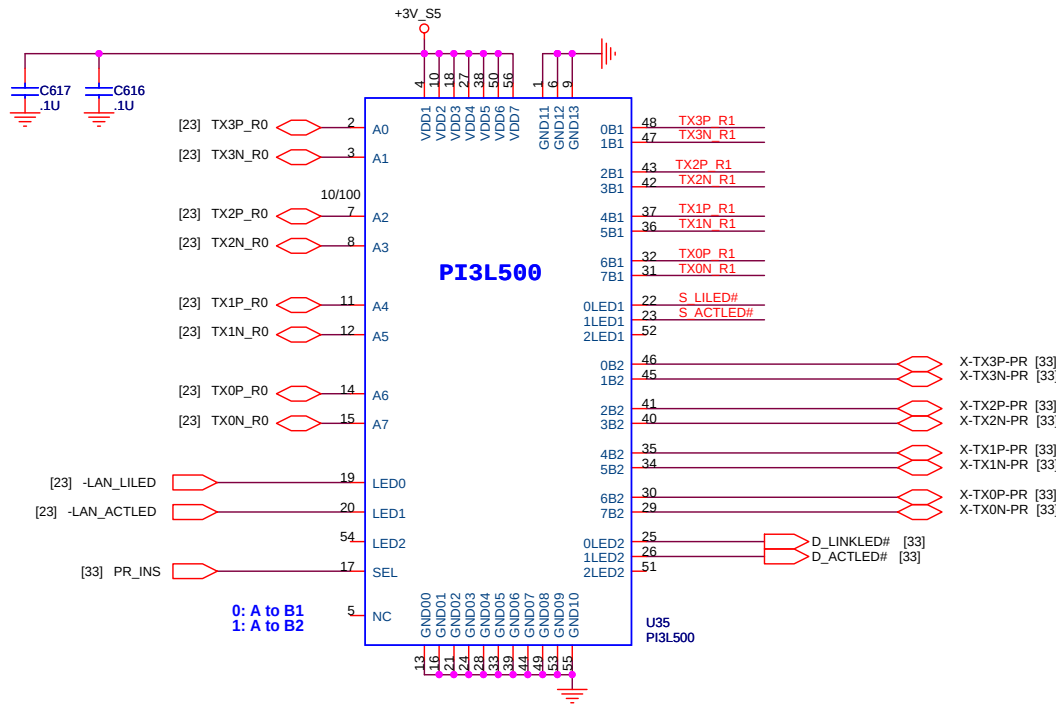


3 IN 1 CARD READER(SD/MMC/MS/MS Pro)

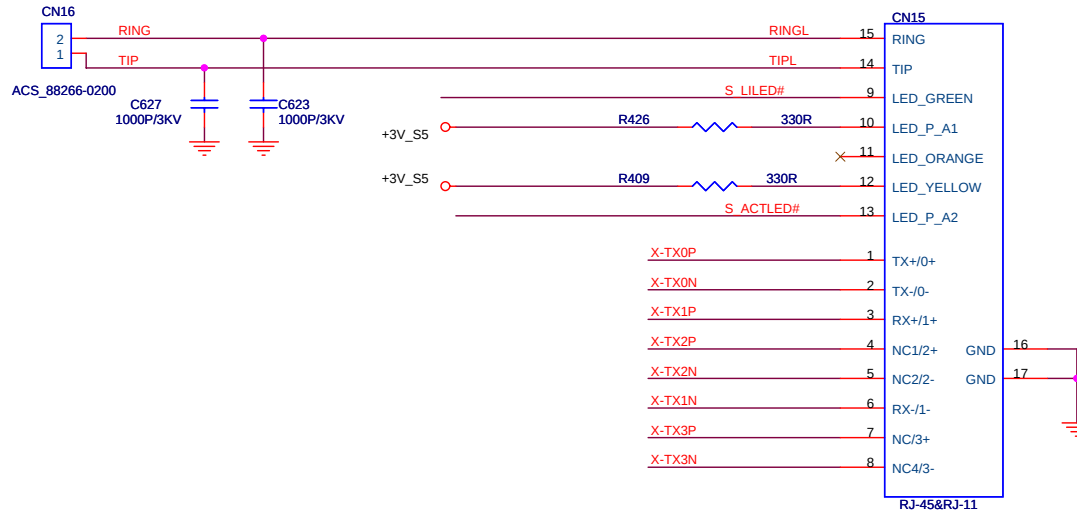


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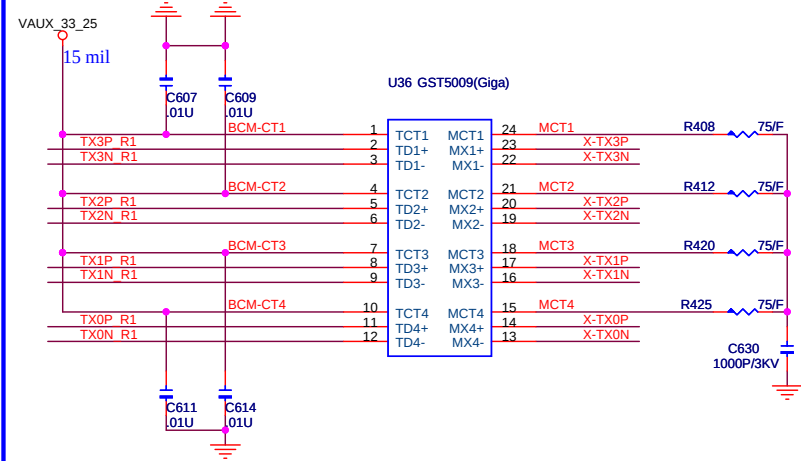
LAN Switch



Modem conn and LAN connect



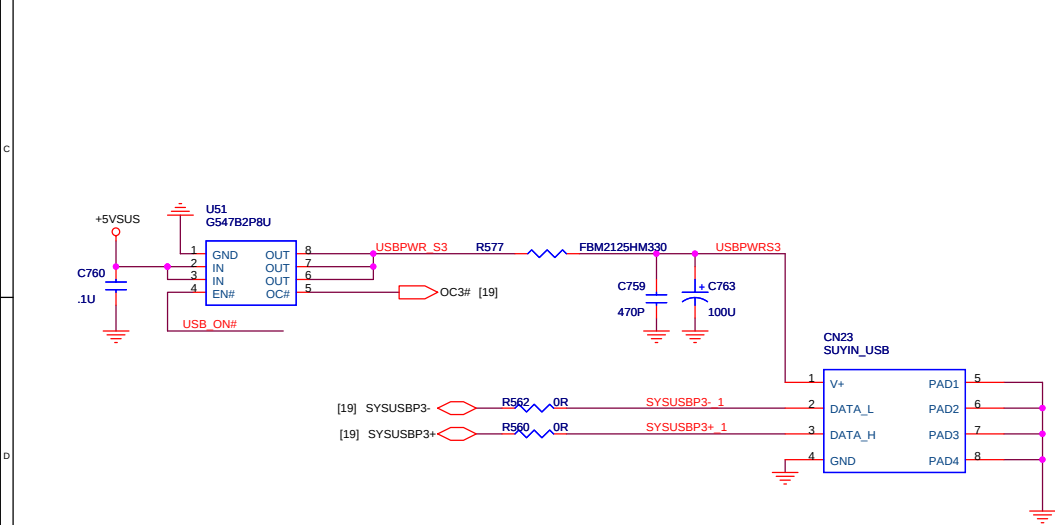
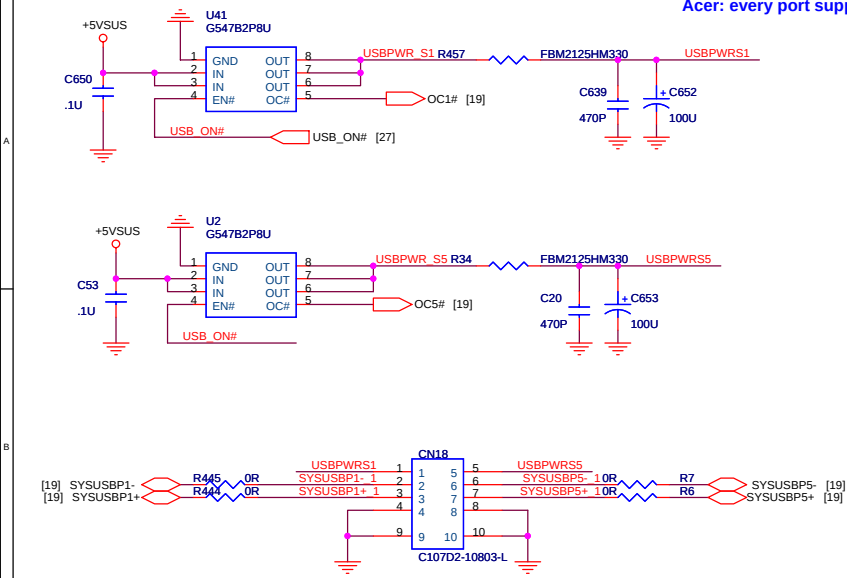
LAN transformer



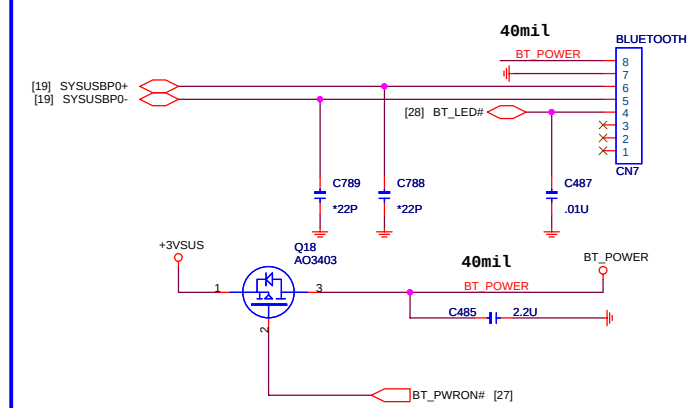
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USB PORTS

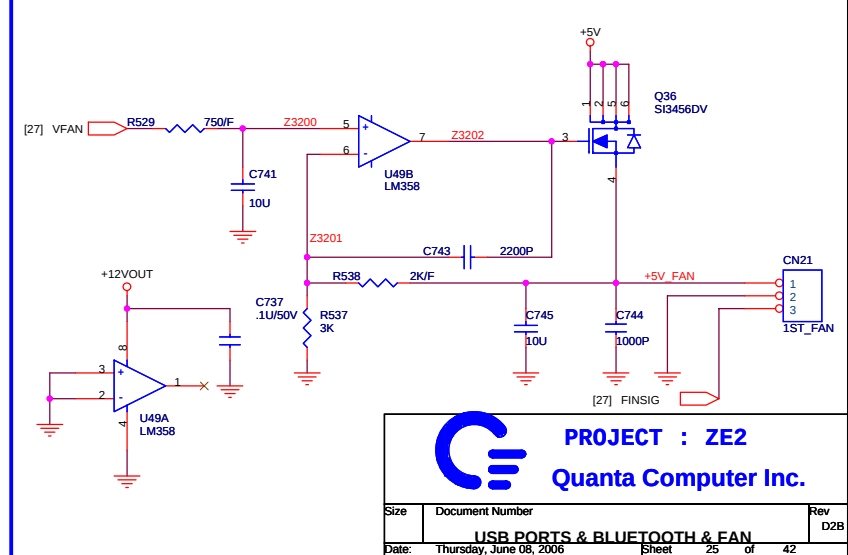
Acer: every port support 1.5A current



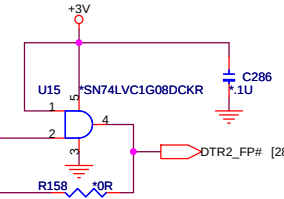
Bluetooth



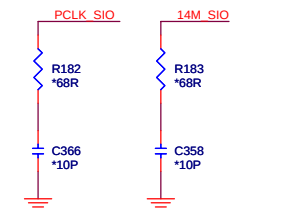
FAN



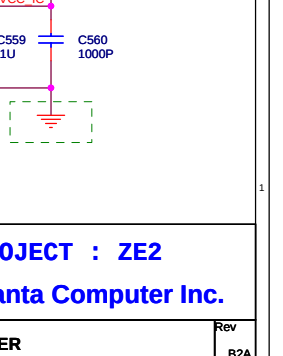
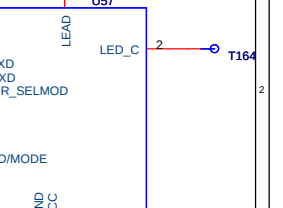
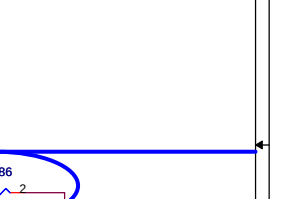
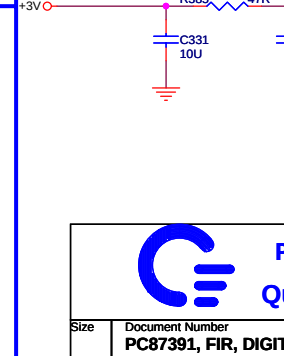
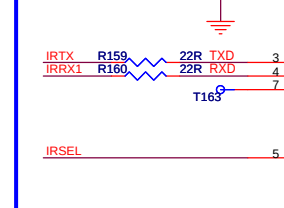
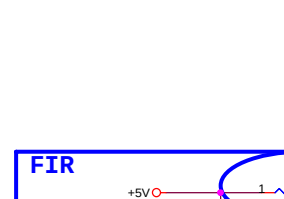
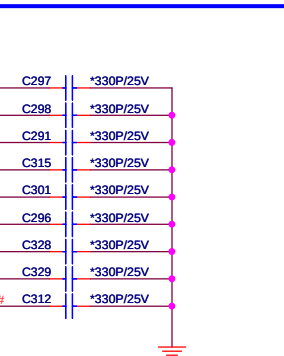
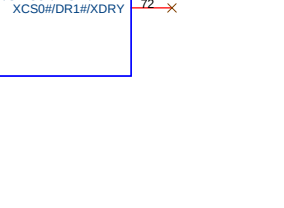
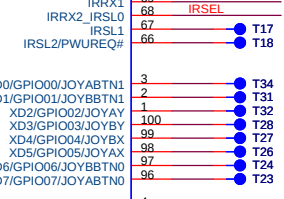
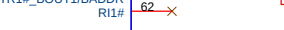
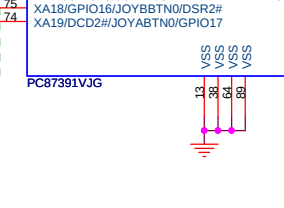
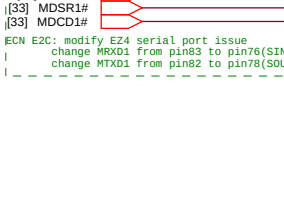
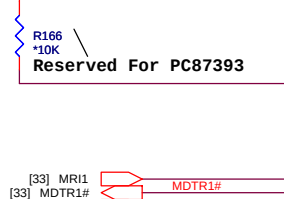
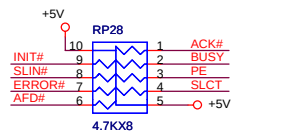
STRAP



EMI



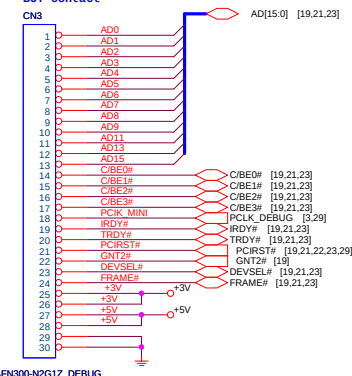
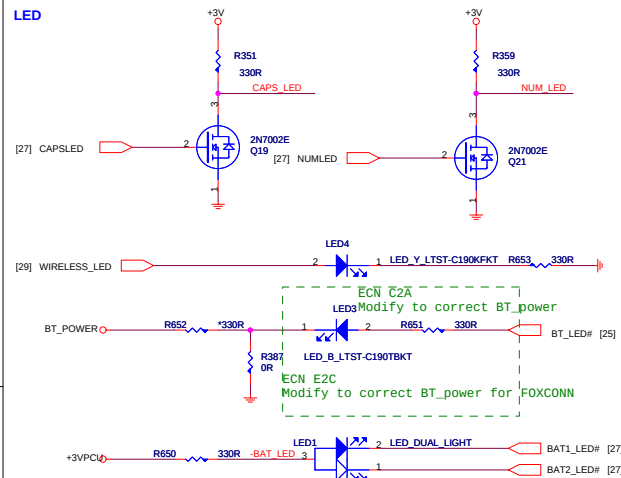
LPT PU



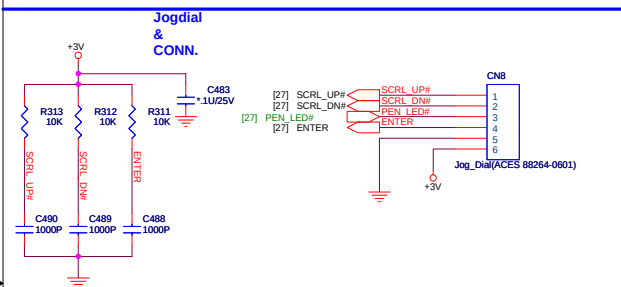
PROJECT : ZE2
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Size	Document Number PC87391, FIR, DIGITIZER	Rev B2A
Date:	Thursday, June 08, 2006	Sheet 26 of 42

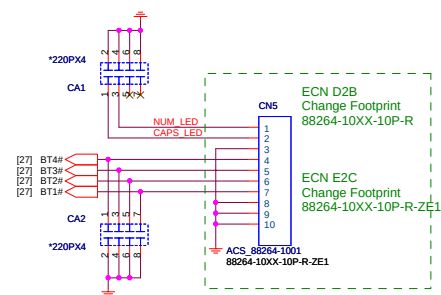
LED



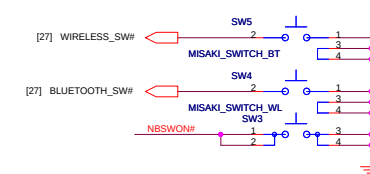
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Quick Button Board



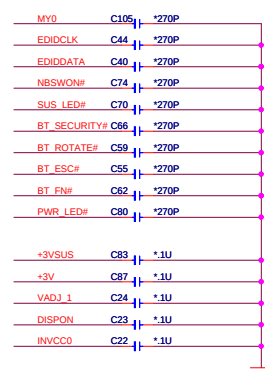
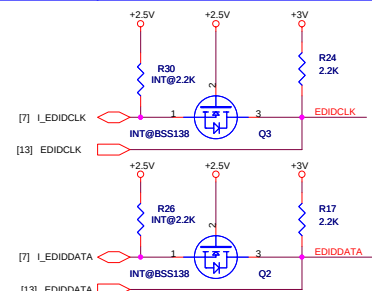
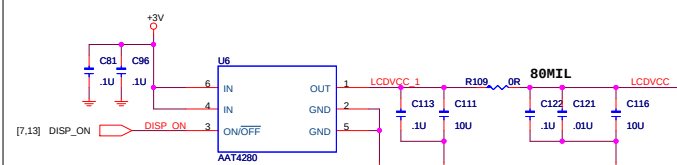
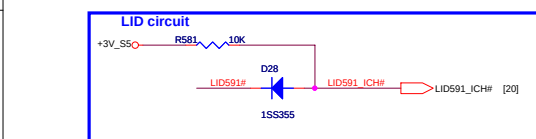
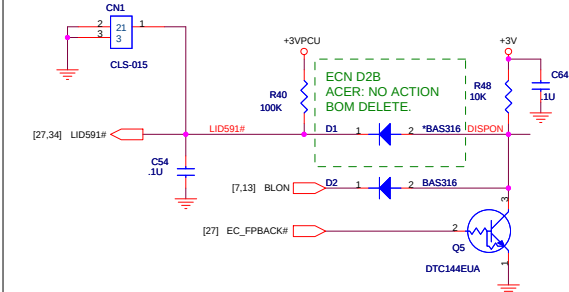
Switch



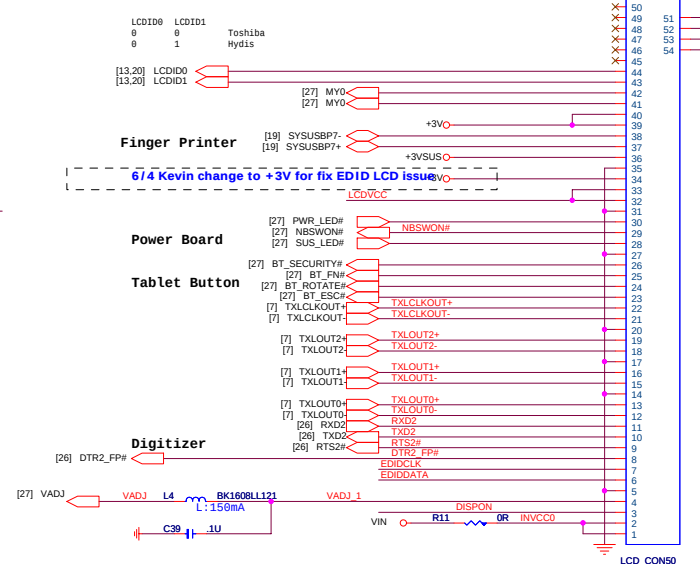
Pressure Sensitive Pen Detect



LID/Display on



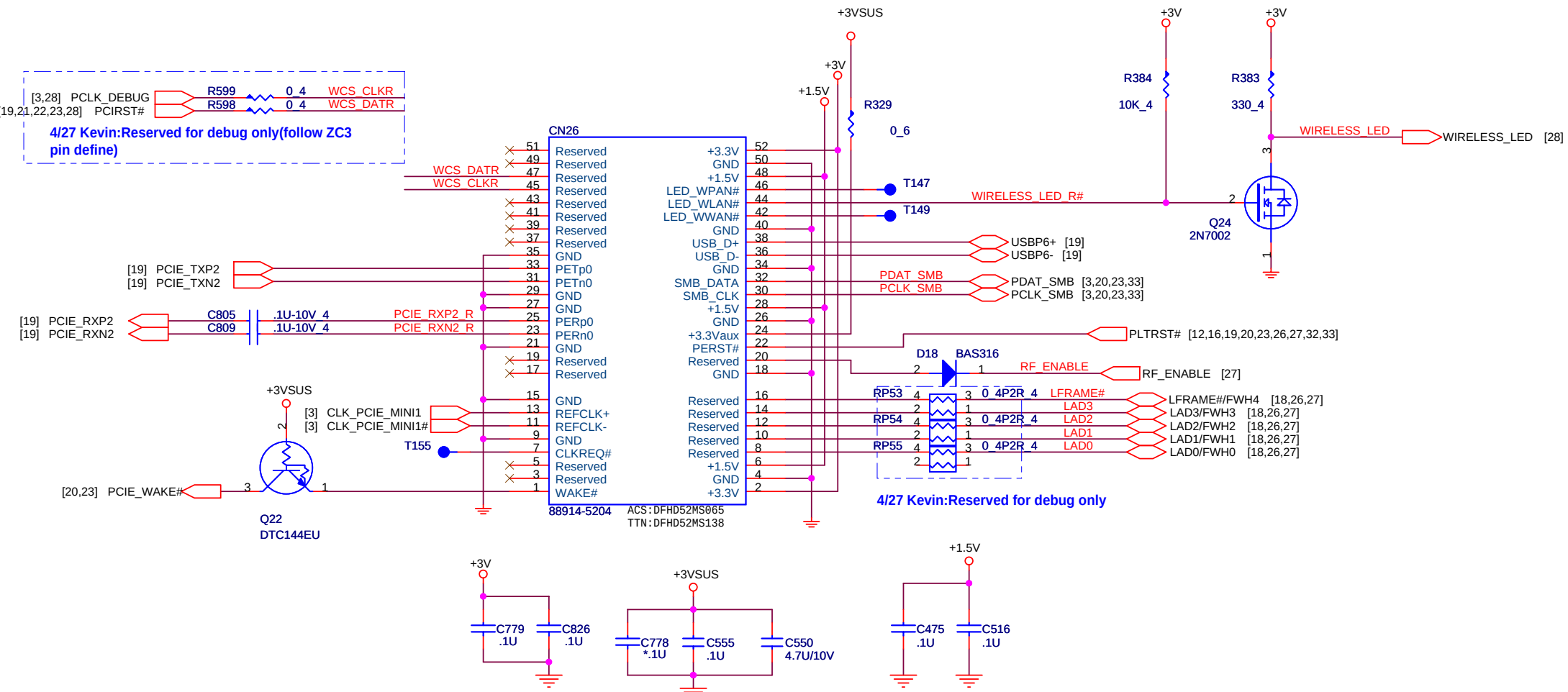
LCD CONNECTOR



PROJECT : ZE2
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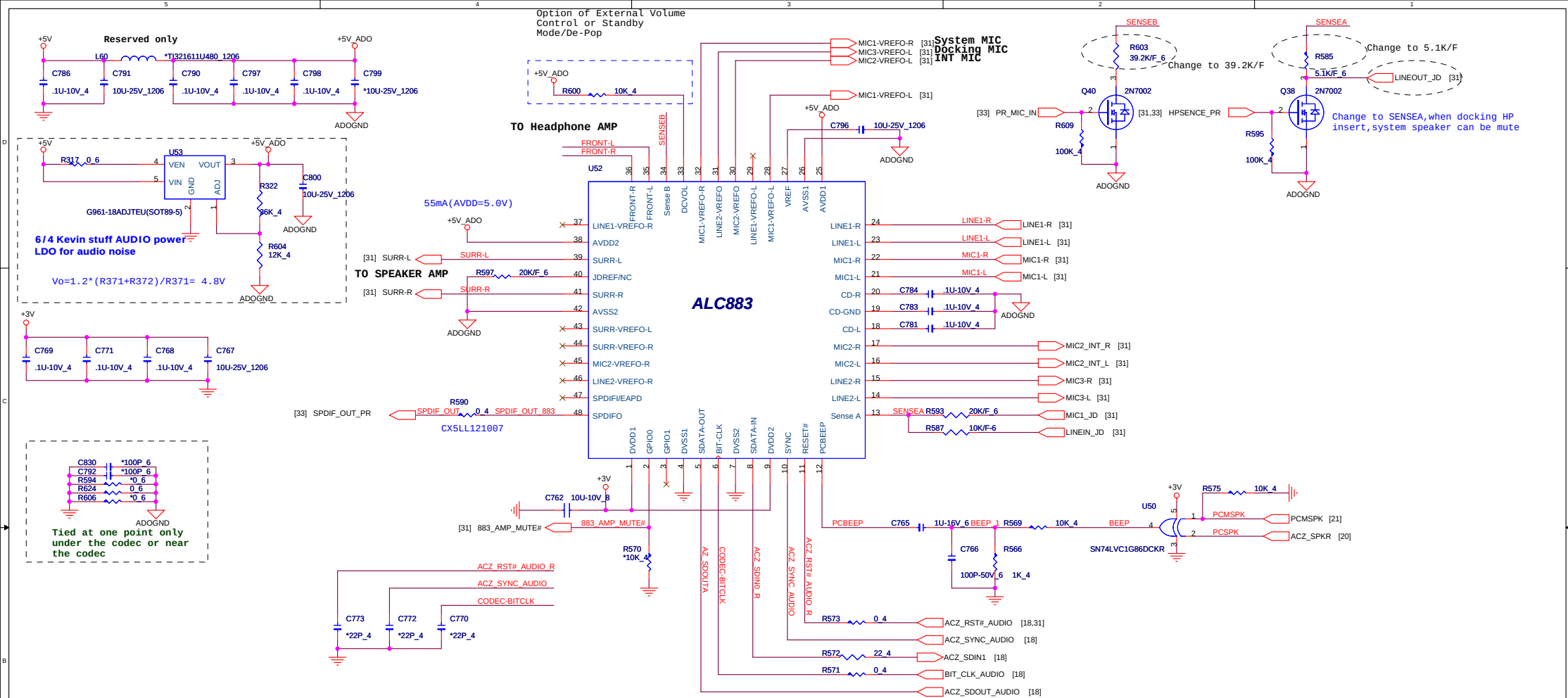
Size	Document Number	Rev
	LED, T/P, FAN, Q-BUTTON, LCD CONN.	D2B
Date:	Thursday, June 08, 2006	Sheet 28 of 42

MINI CARD

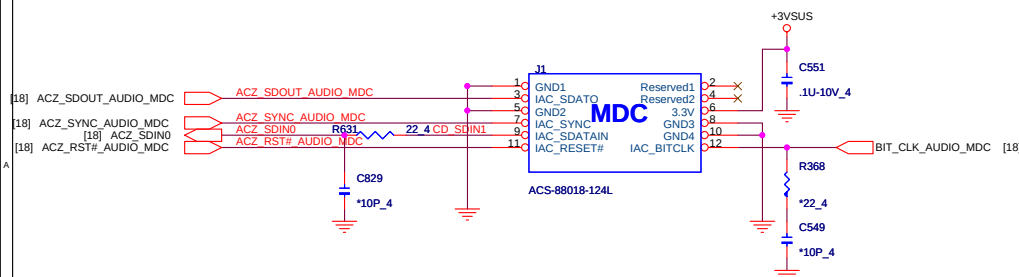


PROJECT : ZE2
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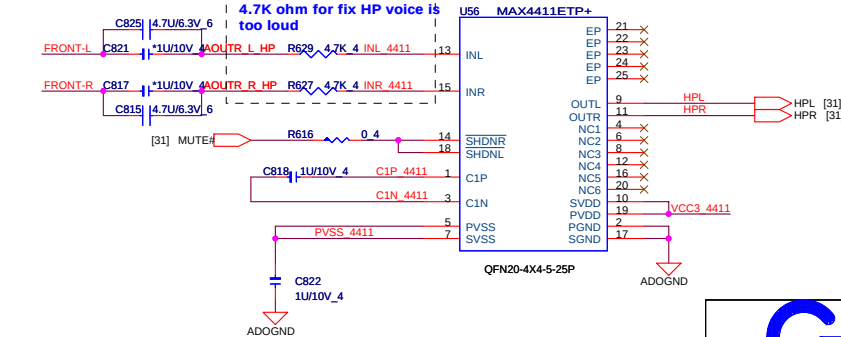
Size	Document Number	Rev
	MINI CARD	B2A
Date:	Thursday, June 08, 2006	Sheet 29 of 42



For MDC Module

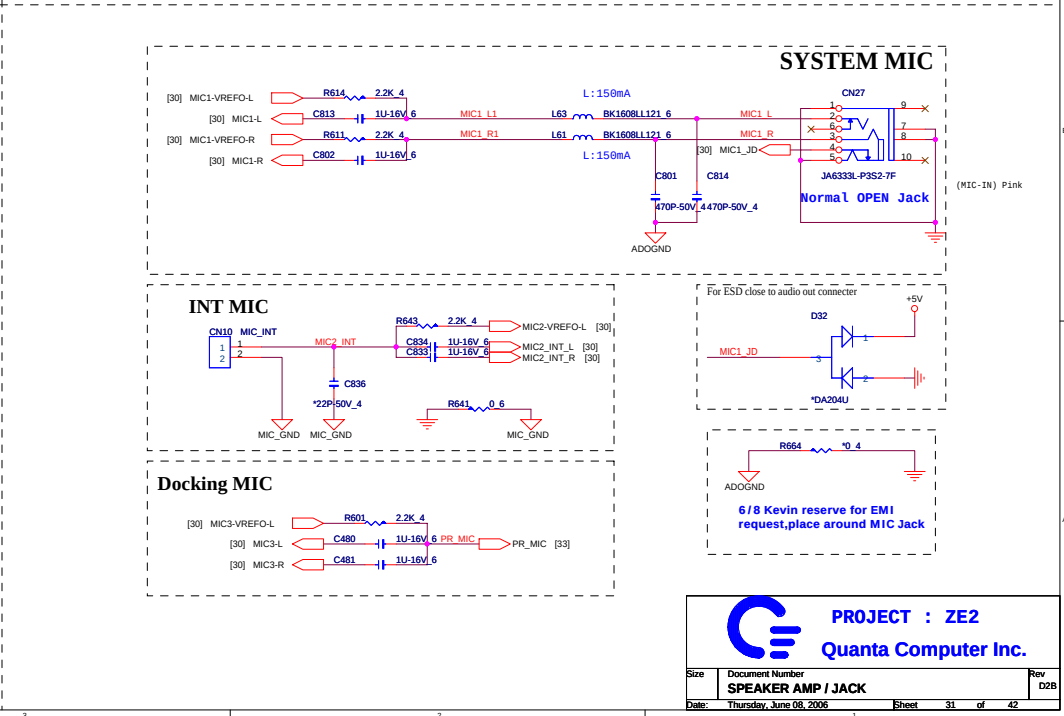
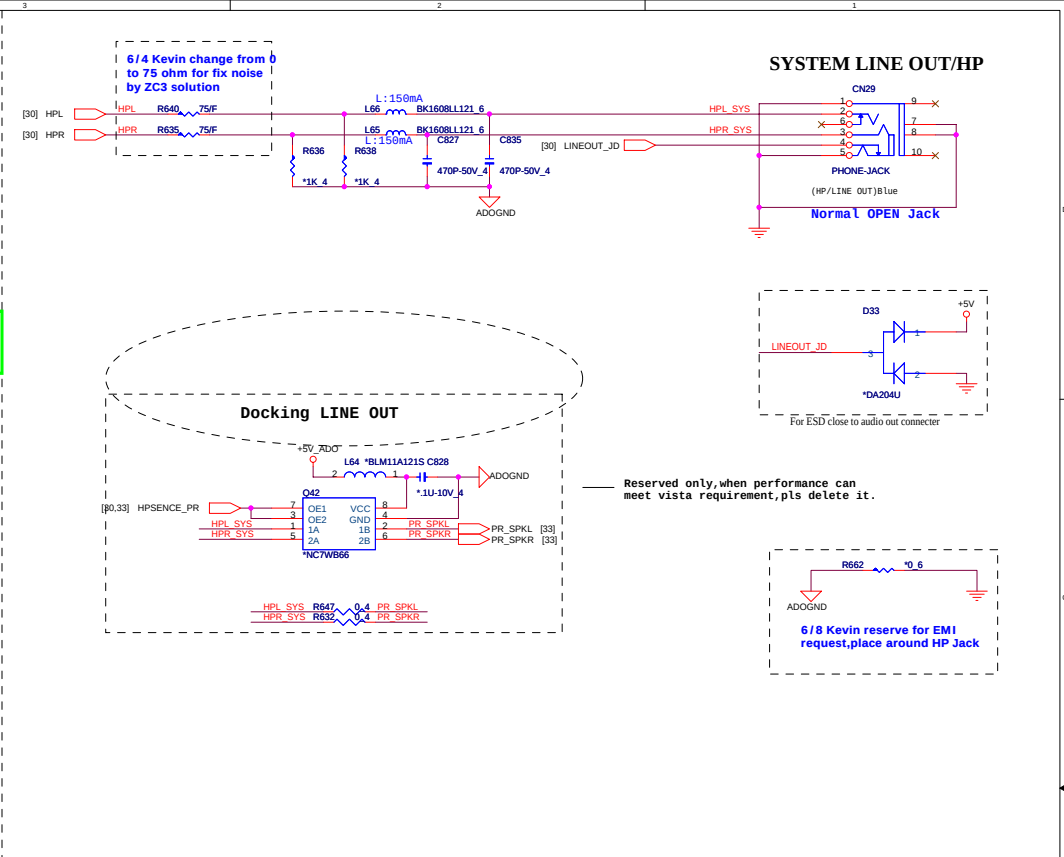


Headphone Amplifier

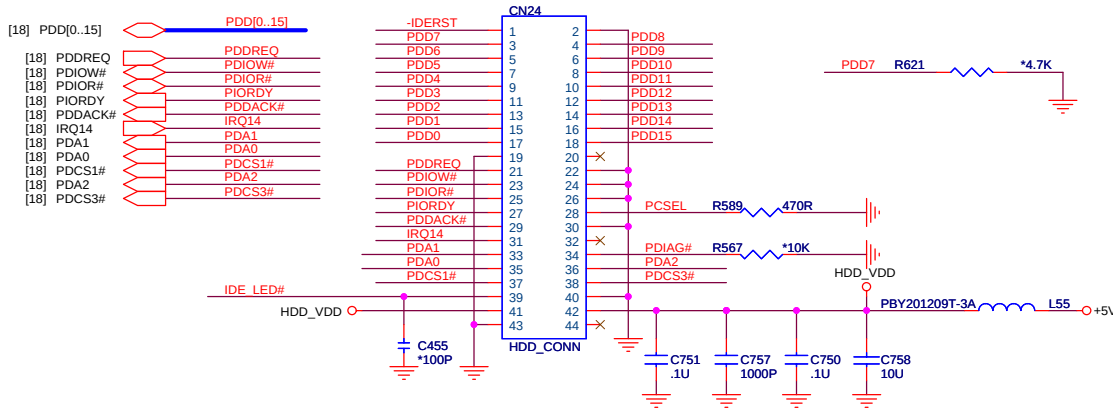


PROJECT : ZE2
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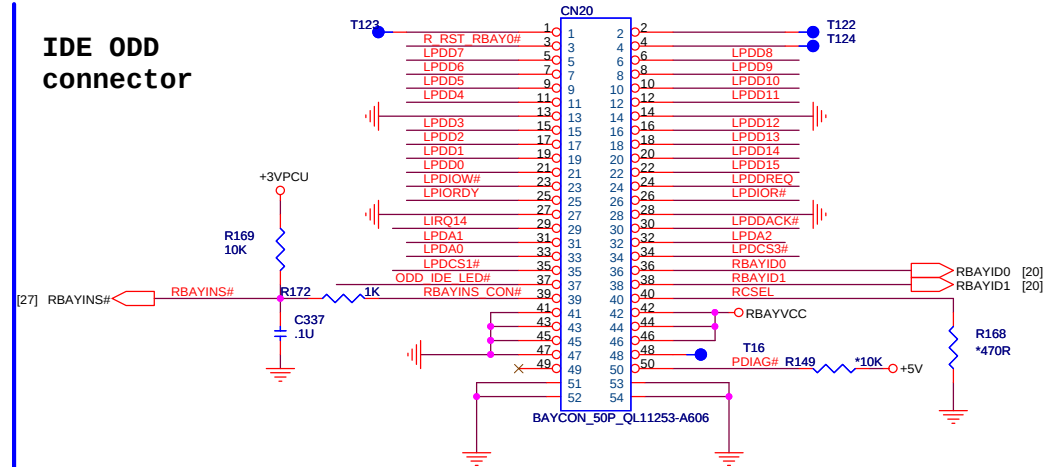
Size	Document Number	Rev
	ALC883 & MDC & HP AMP	B2A
Date:	Thursday, June 06, 2006	Sheet 30 of 42



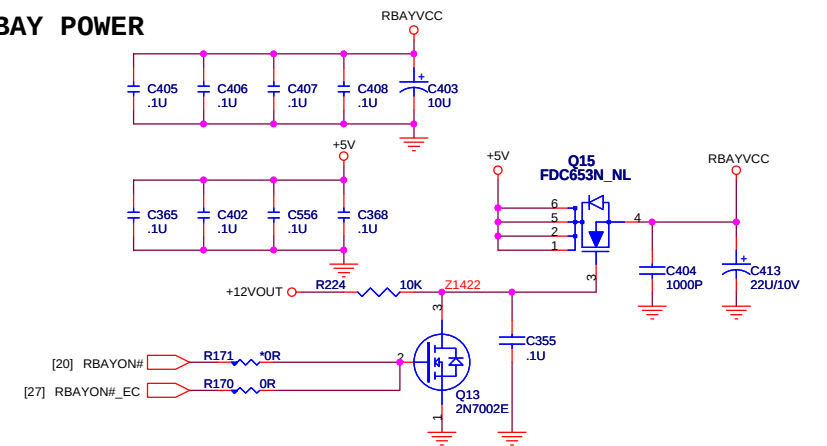
PATA HDD connector



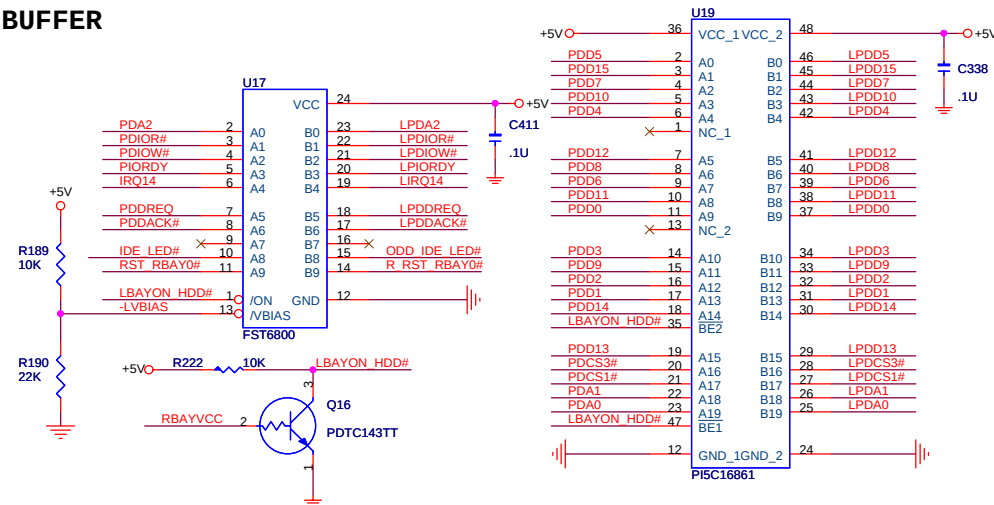
IDE ODD connector



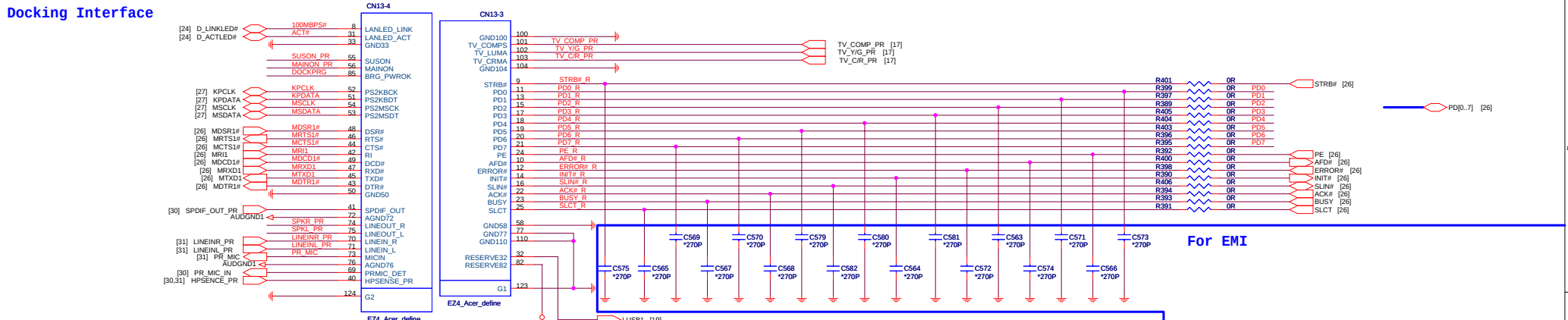
ODD MULTI BAY POWER



IDE BUFFER

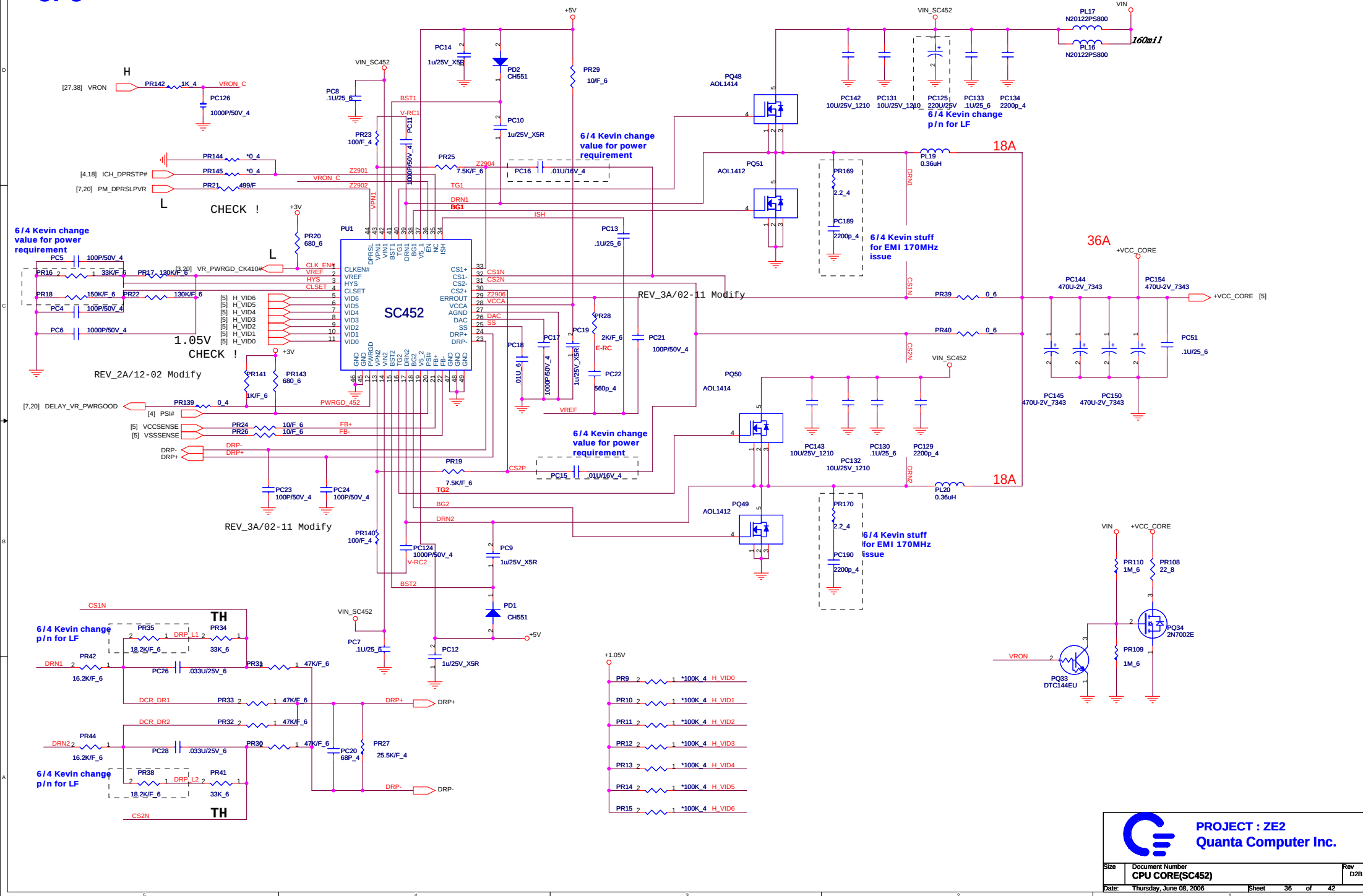


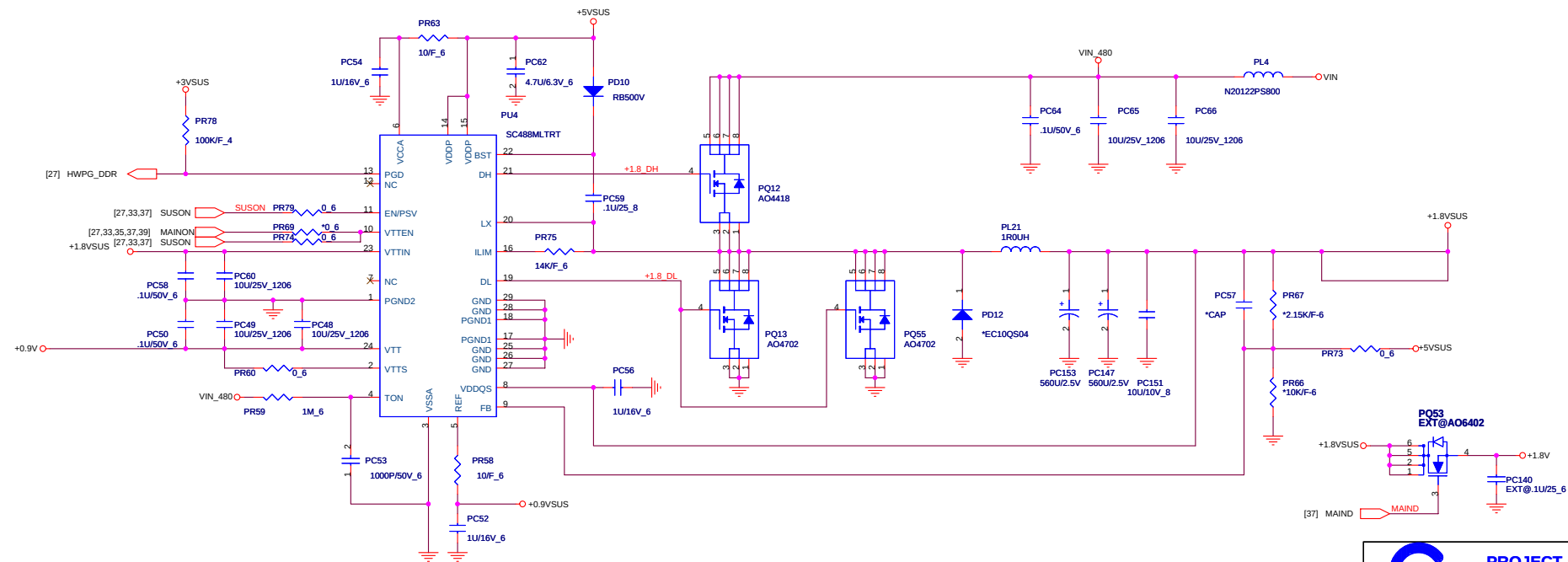
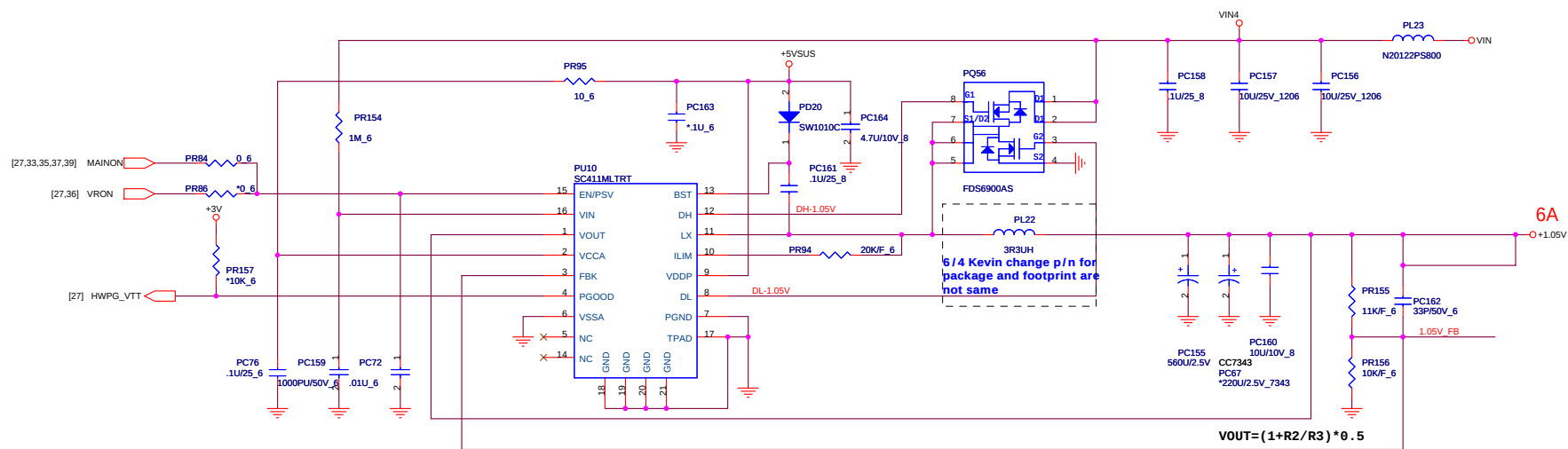
Docking Interface

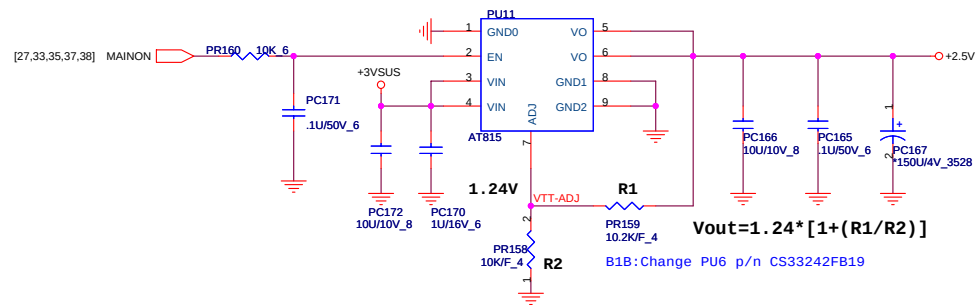


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Size	Document Number TRACK POINT (ALPS & SEMTECH)	Rev B2A
Date:	Thursday, June 08, 2006	Sheet 34 of 42

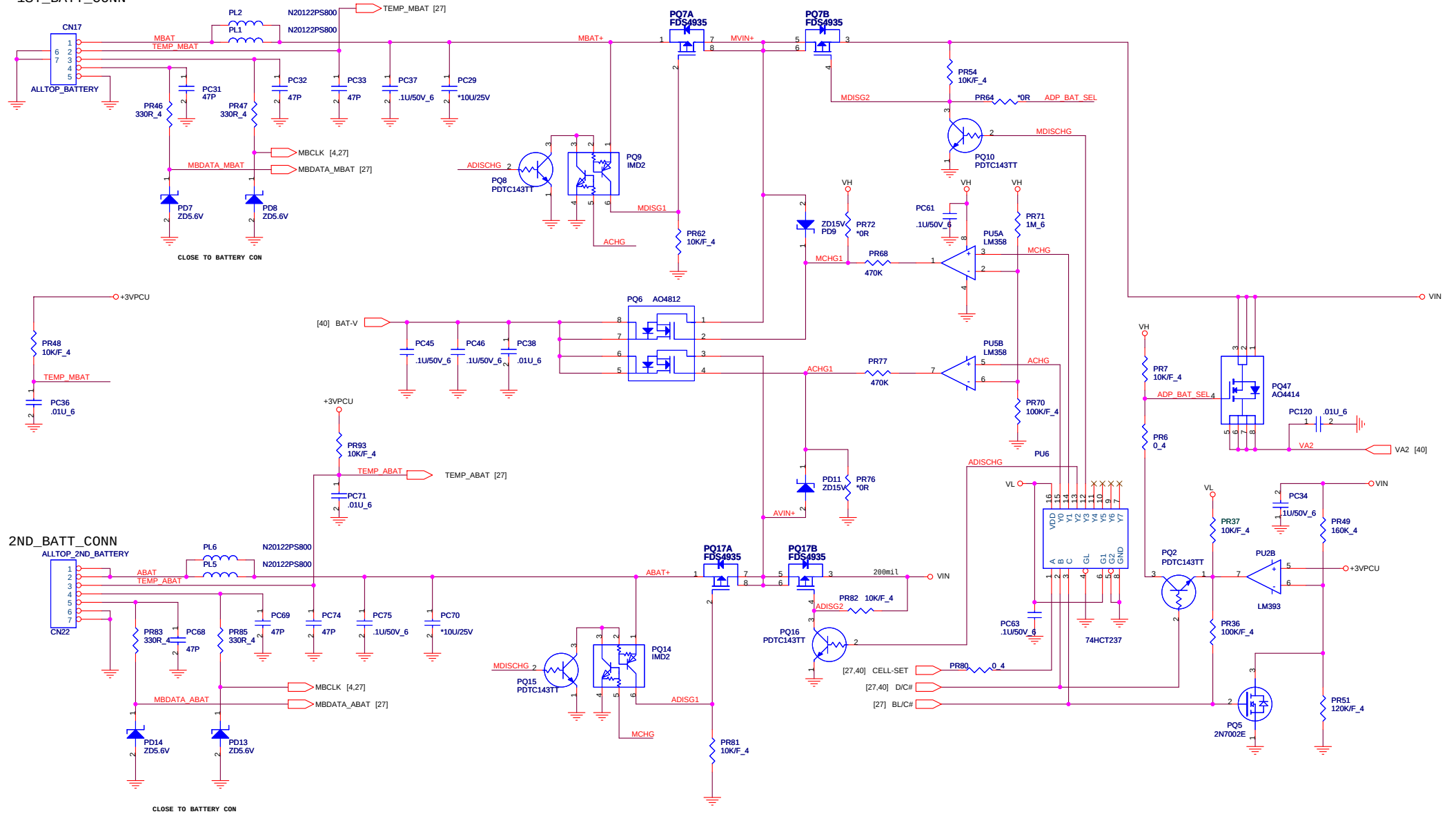
CPU







1ST_BATT_CONN



PROJECT : ZE2
Quanta Computer Inc.

Size	Document Number	Rev
	BATTERY SELECT	D2B
Date:	Thursday, June 08, 2006	Sheet 41 of 42

